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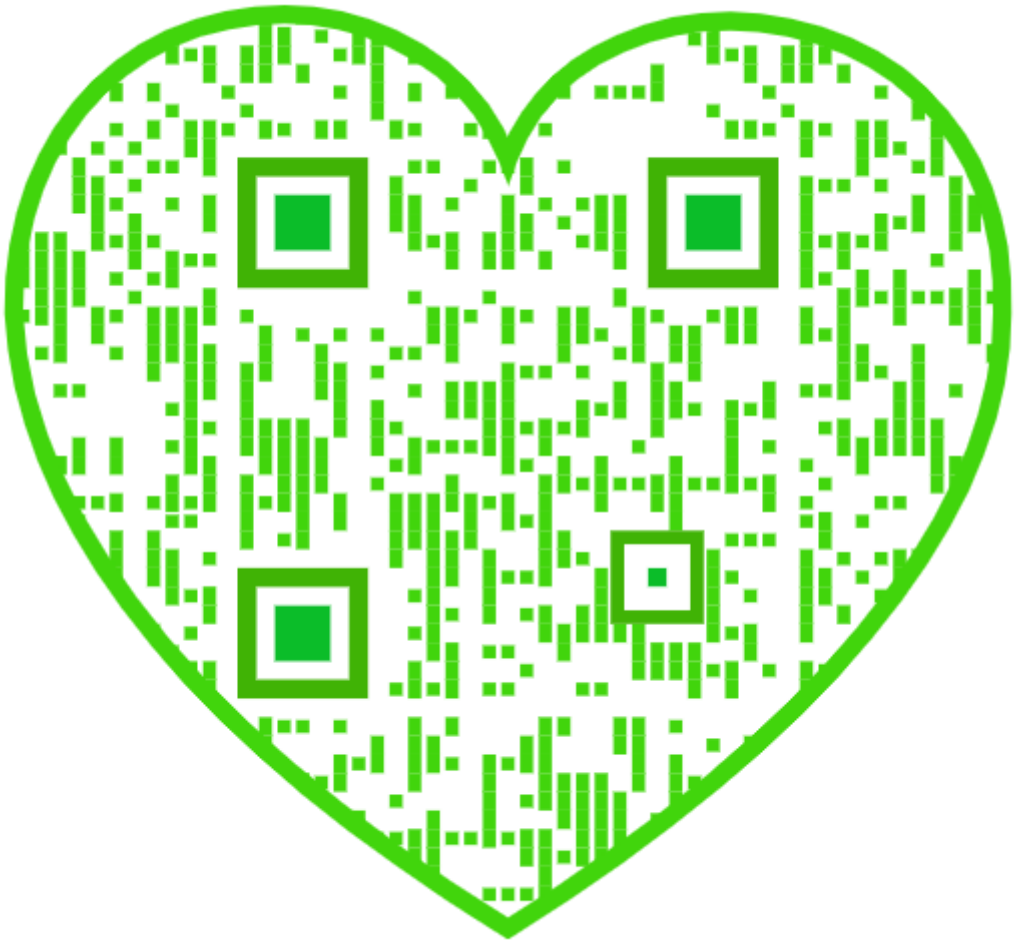

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R. HOE & CO.

MANUFACTURERS OF

TYPE-REVOLVING, PERFECTING, SINGLE AND DOUBLE

CYLINDER AND ADAMS'

PRINTING MACHINES,

Washington and Smith Hand-Presses, Self-Inking Machines, Etc.

EVERY ARTICLE CONNECTED WITH THE ART OF

LETTER-PRESS, COPPER-PLATE, AND LITHOGRAPHIC PRINTING AND BOOKBINDING,

STEREOTYPING AND ELECTROTYPING,

ALWAYS ON HAND OR FURNISHED AT SHORT NOTICE.

CAST STEEL SAWS,

STEAM ENGINES, MACHINERY, IRON AND BRASS CASTINGS, ETC., ETC.

NEW-YORK:
GRAND, SHERIFF, BROOME, COLUMBIA, AND GOLD STREETS.

LONDON, ENGLAND:
TUDOR STREET, E. C.

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PRINTED BY
S. W. Green, No. 18 Jacob Street,
New-York.

PAPER MANUFACTURED BY
The Seymour Paper Company,
New-York.

TO PRINTERS, PUBLISHERS, ETC.

This edition of our Catalogue embraces several new and important improved Printing Machines and other material. We refer to the Perfecting Machine for rapid and economical newspaper printing; and also to the Stop Cylinder for fine work.

We also invite attention to the various Cylinder and Platen Presses we now make for fine cut-work, which are now in such demand among the printers and lithographers of the city and country.

Our new Stop Cylinder for small newspapers and for fine job work is simple in design and construction, and comparatively light in weight, and where there is no steam power available can be easily driven by hand.

We have also a Perfecting Web or Endless Sheet Press in progress, nearly completed, to print with great speed and economy.

We furnish every necessary to the complete outfitting of Printers, Lithographers, Bookbinders, Electrotypers, and Stereotypers.

Shall be pleased to furnish our reduced Price-List, with any information desired.

Your obedient servants,

R. HOE & CO.

New-York, January, 1873.

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Patent Type-Revolving Printing Machine.

THE Type Revolving Printing Machine, manufactured by our firm, was invented by Col. RICHARD M. HOE. It is, as its name indicates, on the rotary principle; that is, the form of type is placed on the surface of a horizontal revolving cylinder of about four and a half feet in diameter. The form occupies a segment of only about one-fourth of the surface of the cylinder, the remainder being used as an ink-distributing surface. Around this main cylinder, and parallel with it, are placed smaller impression cylinders, varying in number from two to ten, according to the size of the machine. The large cylinder being put in motion, the form of types is carried successively to all the impression cylinders, at each of which a sheet is introduced and receives the impression of the types as the form passes. Thus as many sheets are printed at each revolution of the main cylinder as there are impression cylinders around it. One person is required at each impression cylinder to supply the sheets of paper, which are taken at the proper moment by fingers or grippers, and after being printed are conveyed out by tapes and laid in heaps by self-acting flyers, thereby dispensing with the hands required in ordinary machines to receive and pile the sheets. The grippers hold the sheet securely, so that the thinnest newspaper may be printed without waste.

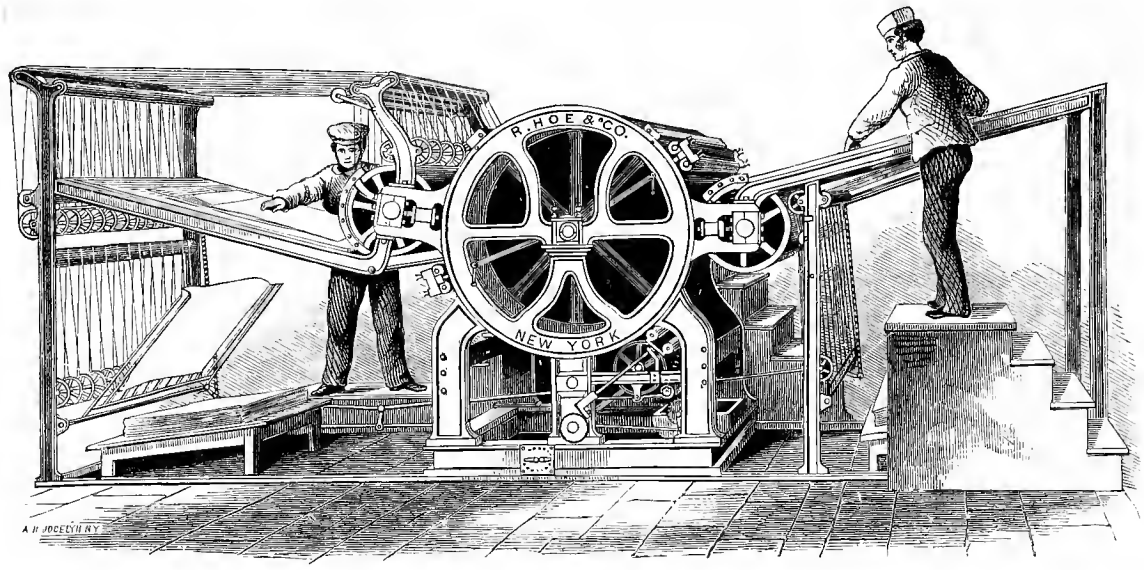
The ink is contained in a fountain, placed beneath the main cylinder, and is conveyed by means of distributing rollers to the distributing surface on the main cylinder. This surface being lower, or less in diameter than the form of types, passes by the impression cylinder without touching. For each impressing cylinder there are two inking rollers, receiving their supply of ink from the distributing surface of the main cylinder, which rise and ink the form as it passes under them, then again fall to the distributing surface.

Each page of the paper is locked up on a detached segment of the large cylinder, which segment constitutes its bed and chase. The column rules run parallel with the shaft of the cylinder, and are consequently straight, while the head, advertising and dash rules have the form of segments of a circle. The column rules are in the shape of a wedge, with the thin part directed toward the axis of the cylinder, so as to bind the types securely. These wedge-shaped column rules are held in their place by tongues projecting at intervals along their length, and sliding in rebated grooves cut crosswise in the face of the bed. The spaces in the grooves between the column rules are accurately fitted with sliding blocks of metal, even with the surface of the bed; the ends of these blocks being cut away underneath to receive a projection on the sides of the tongues of the column rules. The locking-up is effected by means of screws at the foot of each page, by which the type is held as securely as in the ordinary manner upon a flat bed, and is much less liable to accident.

The speed of these machines is limited only by the ability of the feeders to supply the sheets. The Four Cylinder Machine is run at a rate of over ten thousand per hour; the Six Cylinder Machine, fifteen thousand an hour; the Eight Cylinder Machine, twenty thousand; and Ten Cylinder Machine, twenty-five thousand. This system combines the greatest speed in printing, durability of machinery, and economy of labor.

For dimensions, etc., see following pages.

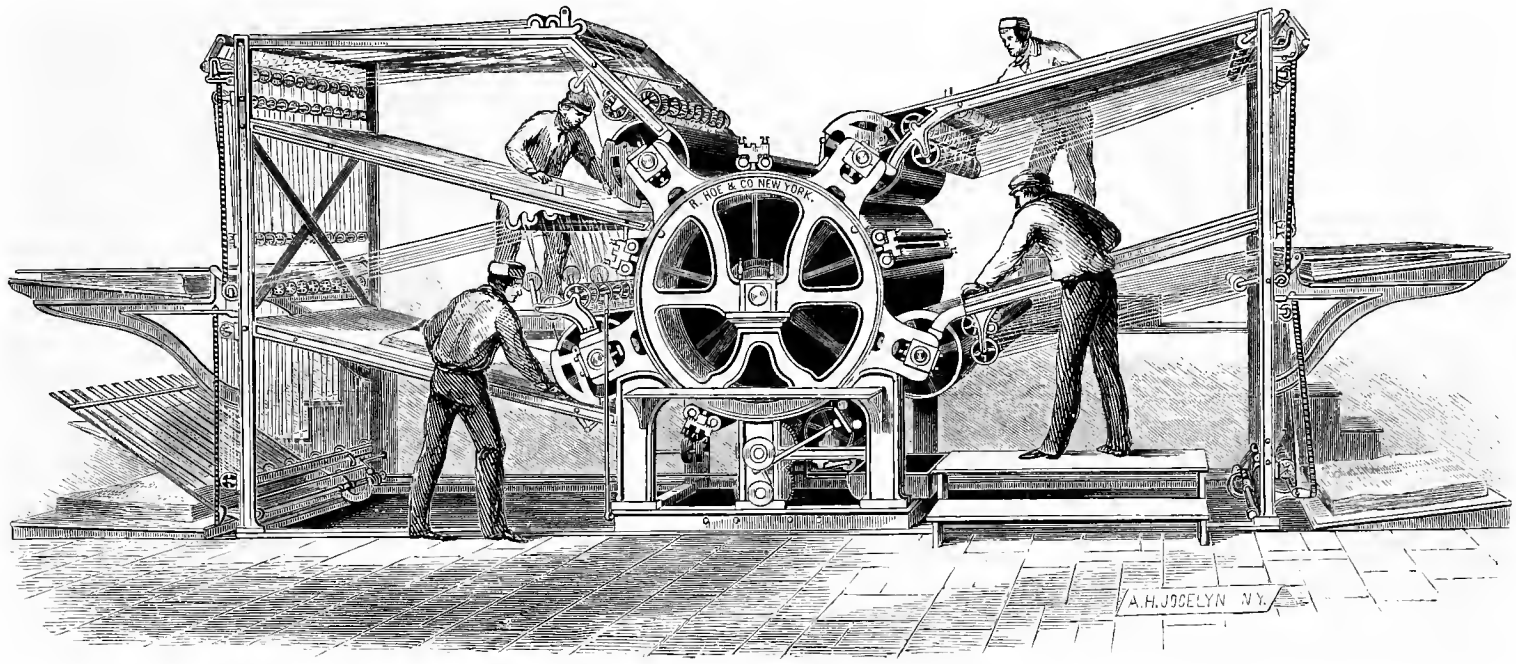
Two Cylinder Type-Revolving Printing Machine.



DIMENSIONS AND PRICES.

	FOLIO SHEETS.			QUARTO SHEETS.				
	No. 1.	**No. 2.**	**No. 3.**	**No. 4.**	**No. 5.**	**No. 6.**	**No. 7.**	**No. 8.**
Size of page of matter,	19½ × 26 in.	24½ × 31 in.	29½ × 36 in.	14 × 19 in.	16 × 21½ in.	18 × 24 in.	20 × 26½ in.	22 × 29 in.
" whole "	26 × 40 "	31 × 50 "	36 × 60 "	29 × 40 "	33 × 45 "	37 × 50 "	41 × 55 "	45 × 60 "
" sheet of paper,	28 × 42 "	33 × 52 "	38 × 62 "	31 × 42 "	35 × 47 "	39 × 52 "	43 × 57 "	47 × 62 "
Width of centre margins,	1 "	1 "	1 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "
" outside "	1 "	1 "	1 "	1 "	1 "	1 "	1 "	1 "
Size of rubber blanket,	30 × 44 "	35 × 54 "	40 × 64 "	33 × 44 "	37 × 49 "	41 × 54 "	45 × 59 "	49 × 64 "
" cloth "	30 × 45 "	35 × 54 "	40 × 65 "	34 × 44 "	38 × 49 "	42 × 54 "	46 × 59 "	54 × 64 "
" type-bed tables,	24 × 32 "	27 × 36 "	30 × 40 "	18 × 24 "	18 × 24 "	21 × 28 "	24 × 32 "	24 × 32 "
Number of type-beds,	4 "	4 "	4 "	8 "	8 "	8 "	8 "	8 "
Length of sheet-flyers,	42 "	50 "	59 "	31 "	35 "	39 "	43 "	46 "
" machine,	19 ft. 0 "	19 ft. 0 "	20 ft. 8 "	19 ft. 0 "	19 ft. 0 "	19 ft. 0 "	19 ft. 0 "	19 ft. 0 "
Width of machine between sides,	36 "	41 "	46 "	51 "	56 "	61 "	66 "	71 "
" " includ'g platforms,	7 ft. 3 "	7 ft. 8 "	8 " 1 "	8 " 6 "	8 "11 "	9 " 4 "	9 " 9 "	10 " 2 "
" of rear platform,	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "
Height of machine,	7 " 4 "	7 " 4 "	7 " 8 "	7 " 4 "	7 " 4 "	7 " 4 "	7 " 4 "	7 " 4 "
Length of room required,	25 " 0 "	25 " 0 "	27 " 0 "	25 " 0 "	25 " 0 "	25 " 0 "	25 " 0 "	25 " 0 "
Width " "	11 " 0 "	11 " 6 "	12 " 0 "	12 " 6 "	13 " 0 "	13 " 6 "	14 " 6 "	15 " 6 "
Height " "	9 " 0 "	9 " 0 "	9 " 6 "	9 " 0 "	9 " 0 "	9 " 0 "	9 " 0 "	9 " 0 "
Size of side frame,	6 × 6. 5 × 1.	6 × 6. 5 × 1.	6 × 7. 5 × 1.	6 × 6. 5 × 1.	6 × 6. 5 × 1.	6 × 6. 5 × 1.	6 × 6. 5 × 1.	6 × 6. 5 × 1.
" main cylinder,	3.9 dia. × 4.5.	3.9 dia. × 4.10	3.9 dia. × 5.3.	3.9 dia. × 5.8.	3.9 dia. × 6.1.	3.9 dia. × 6.6.	3.9 dia. × 6.11.	3.9 dia. × 7.4.
Weight of heaviest piece,	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,600 lbs.	1,600 lbs.	1,600 lbs.	1,700 lbs.	1,700 lbs.
" entire press boxed,	14,000 "	15,000 "	16,000 "	17,000 "	18,000 "	19,000 "	20,000 "	21,000 "
Power required to drive machine,	1 H. P.	1 H. P.	1 H. P.	1½ H. P.	1½ H. P.	1½ H. P.	2 H. P.	2 H. P.
Price of machine, with beds as above,	$	$	$	$	$	$	$	$
" extra type-bed,								
" type-bed tables,								
" brass galleys,								
" proof press,								
" form truck,								
" boxing and carting,								

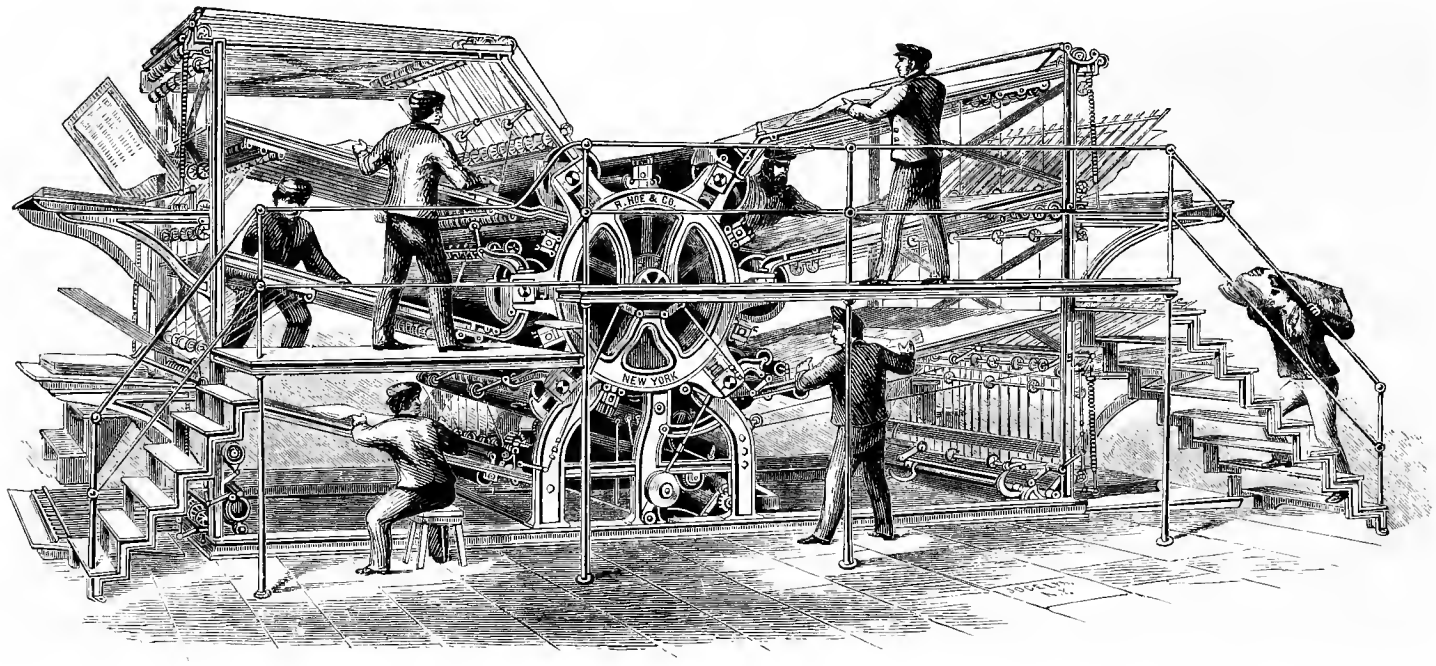
Four Cylinder Type-Revolving Printing Machine.



DIMENSIONS AND PRICES.

	FOLIO SHEETS.			QUARTO SHEETS.				
	No. 1.	**No. 2.**	**No. 3.**	**No. 4.**	**No. 5.**	**No. 6.**	**No. 7.**	**No. 8.**
Size of page of matter,	19½ × 26 in.	24½ × 31 in.	29½ × 36 in.	14 × 19 in.	16 × 21½ in.	18 × 24 in.	20 × 26½ in.	22 × 29 in.
" whole "	26 × 40 "	31 × 50 "	36 × 60 "	29 × 40 "	33 × 45 "	37 × 50 "	41 × 55 "	45 × 60 "
" sheet of paper,	28 × 42 "	33 × 52 "	38 × 62 "	31 × 42 "	35 × 47 "	39 × 52 "	43 × 57 "	47 × 62 "
Width of centre margins,	1	1 "	1 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "
" outside "	1 "	1 "	1 "	1 "	1 "	1 "	1 "	1 "
Size of rubber blanket,	30 × 44 "	35 × 54 "	40 × 64 "	33 × 44 "	37 × 49 "	41 × 54 "	45 × 59 "	49 × 64 "
" cloth "	30 × 45 "	35 × 54 "	40 × 65 "	34 × 44 "	38 × 49 "	42 × 54 "	46 × 59 "	54 × 64 "
" type-bed tables,	24 × 32 "	26 × 36 "	30 × 40 "	18 × 24 "	18 × 24 "	21 × 28 "	24 × 32 "	24 × 32 "
Number of type-beds,	4 "	4 "	4 "	8 "	8 "	8 "	8 "	8 "
Length of sheet-flyers,	42 "	50 "	59 "	31 "	35 "	39 "	43 "	47 "
" machine,	27 ft. 0 "	29 ft. 0 "	32 ft. 0 "	25 ft. 4 "	26 ft. 0 "	26 ft. 8 "	27 ft. 4 "	28 ft. 0 "
Width of machine between sides,	36 "	41 "	46 "	51 "	56 "	61 "	66 "	71 "
" " includ'g platforms,	7 " 3 "	7 " 8 "	8 " 1 "	8 " 6 "	8 " 11 "	9 " 4 "	9 " 9 "	10 " 2 "
" rear platform,	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "	3 " 0 "
Height of machine,	9 " 6 "	9 " 9 "	11 " 6 "	9 " 6 "	9 " 6 "	9 " 6 "	9 " 6 "	9 " 6 "
Length of room required,	33 " 0 "	36 " 0 "	39 " 0 "	31 " 4 "	32 " 0 "	32 " 8 "	33 " 4 "	34 " 0 "
Width " "	11 " 0 "	11 " 6 "	12 " 0 "	12 " 6 "	13 " 0 "	13 " 6 "	14 " 6 "	15 " 6 "
Height " "	11 " 6 "	11 " 6 "	12 " 0 "	11 " 6 "	11 " 6 "	11 " 6 "	11 " 6 "	11 " 6 "
Size of side-frame,	6.7 × 6.2 × 1.	6.7 × 6.2 × 1.	6.8 × 7. × 1.	6.7 × 6.2 × 1.	6.7 × 6.2 × 1.	6.7 × 6.2 × 1.	6.7 × 6.2 × 1.	6.7 × 6.2 × 1.
" main cylinder,	3.9 dia. × 4.5.	3.9 dia. × 4.10.	3.9 dia. × 5.3.	3.9 dia. × 5.8.	3.9 dia. × 6.1.	3.9 dia. × 6.6.	3.9 dia. × 6.11.	3.9 dia. × 7.4.
Weight of heaviest piece,	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,600 lbs.	1,600 lbs.	1,600 lbs.	1,700 lbs.	1,700 lbs.
" entire press boxed,	18,500 "	20,000 "	21,500 "	23,000 "	24,500 "	26,000 "	27,500 "	29,000 "
Power required to drive machine,	2 H. P.	2 H. P.	2 H. P.	2½ H. P.	2½ H. P.	2½ H. P.	3 H. P.	3 H. P.
Price of machine, with beds as above,	$	$	$	$	$	$	$	$
" extra bed,								
" bed table,								
" brass galley,								
" proof press,								
" form truck,								
" boxing and carting,								

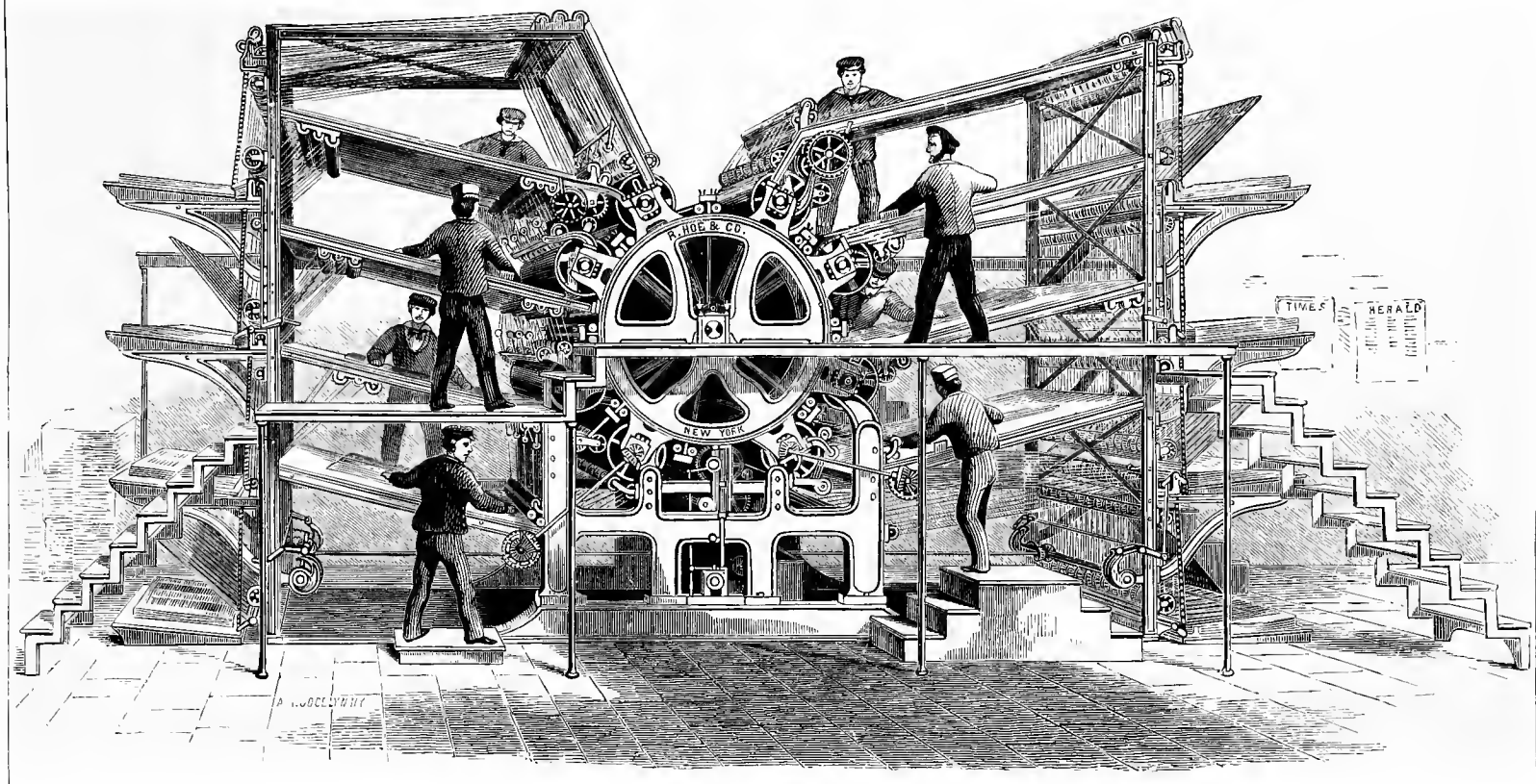
Six Cylinder Type-Revolving Printing Machine.



DIMENSIONS AND PRICES.

	FOLIO SHEETS.			QUARTO SHEETS.				
	No. 1.	**No. 2.**	**No. 3.**	**No. 4.**	**No. 5.**	**No. 6.**	**No. 7.**	**No. 8.**
Size of page of matter,	19½ × 26 in.	24½ × 31 in.	29½ × 36 in.	14 × 19 in.	16 × 21½ in.	18 × 24 in.	20 × 26½ in.	22 × 29 in.
" whole "	26 × 40 "	31 × 50 "	36 × 60 "	29 × 40 "	33 × 45 "	37 × 50 "	41 × 55 "	45 × 60 "
Size of sheet of paper,	28 × 42 "	33 × 52 "	38 × 62 "	31 × 42 "	35 × 47 "	39 × 52 "	43 × 57 "	47 × 62 "
Width of centre margins,	1 "	1 "	1 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "
" outside "	1 "	1 "	1 "	1 "	1 "	1 "	1 "	1 "
Size of rubber blanket,	30 × 44 "	35 × 54 "	40 × 64 "	33 × 44 "	37 × 49 "	41 × 54 "	45 × 59 "	49 × 64 "
" cloth "	30 × 45 "	35 × 54 "	40 × 65 "	34 × 44 "	38 × 49 "	42 × 54 "	46 × 59 "	54 × 64 "
" type-bed tables,	24 × 32 "	27 × 36 "	30 × 40 "	18 × 24 "	18 × 24 "	21 × 28 "	24 × 32 "	24 × 32 "
Number of type-beds,	4 "	4 "	4 "	8 "	8 "	8 "	8 "	8 "
Length of sheet-flyers,	42 "	50 "	59 "	31 "	35 "	39 "	43 "	46 "
" machine,	28 ft. 0 "	29 ft. 0 "	32 ft. 0 "	28 ft. 0 "	28 ft. 0 "	28 ft. 0 "	28 ft. 0 "	28 ft. 0 "
Width of machine between sides,	36 "	41 "	46 "	51 "	56 "	61 "	66 "	71 "
" " includ'g platforms,	10 " 0 "	10 " 5 "	10 " 10 "	11 " 3 "	11 " 8 "	12 " 1 "	12 " 6 "	13 " 0 "
" front platform,	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "
" rear platform,	4 " 0 "	4 " 0 "	4 " 0 "	4 " 0 "	4 " 0 "	4 " 0 "	4 " 0 "	4 " 0 "
Height of machine,	12 " 6 "	14 " 4 "	16 " 7 "	11 " 3 "	11 " 3 "	11 "10 "	12 "10 "	13 "10 "
Length of room required,	34 " 0 "	36 " 0 "	39 " 0 "	34 " 0 "	34 " 0 "	34 " 0 "	34 " 0 "	34 " 0 "
Width " "	14 " 0 "	14 " 6 "	15 " 0 "	15 " 6 "	16 " 0 "	16 " 6 "	17 " 0 "	17 " 6 "
Height " "	13 " 0 "	15 " 0 "	17 " 0 "	13 " 0 "	13 " 0 "	13 " 0 "	13 " 6 "	14 " 6 "
Size of side-frames,	8.2 × 6.5 × 1.	8.2 × 6.5 × 1.	8.3 × 7.3 × 1.	8.2 × 6.5 × 1.	8.2 × 6.5 × 1.	8.2 × 6.5 × 1.	8.2 × 6.5 × 1.	8.2 × 6.5 × 1.
" main cylinder,	3.9 dia. × 4.5.	3.9 dia. × 4.10.	3.9 dia. × 5.3.	3.9 dia. × 5.8.	3.9 dia. × 6.1.	3.9 dia. × 6.6.	3.9 dia. × 6.11.	3.9 dia. × 7.4.
Weight of the heaviest piece,	1,400 "	1,400 lbs.	1,400 lbs.	1,600 lbs.	1,600 lbs.	1,600 lbs.	1,700 lbs.	1,700 lbs.
" entire press boxed,	27,000 "	29,000 "	31,000 "	33,000 "	35,000 "	37,000 "	39,000 "	41,000 "
Power required to drive machine,	3 H. P.	3 H. P.	3 H. P.	4 H. P.	4 H. P.	4 H. P.	5 H. P.	5 H. P.
Price of machine with beds as above,	$	$	$	$	$	$	$	$
" extra bed,								
" bed table,								
" brass galley,								
" proof press,								
" form truck,								
" boxing and carting,								

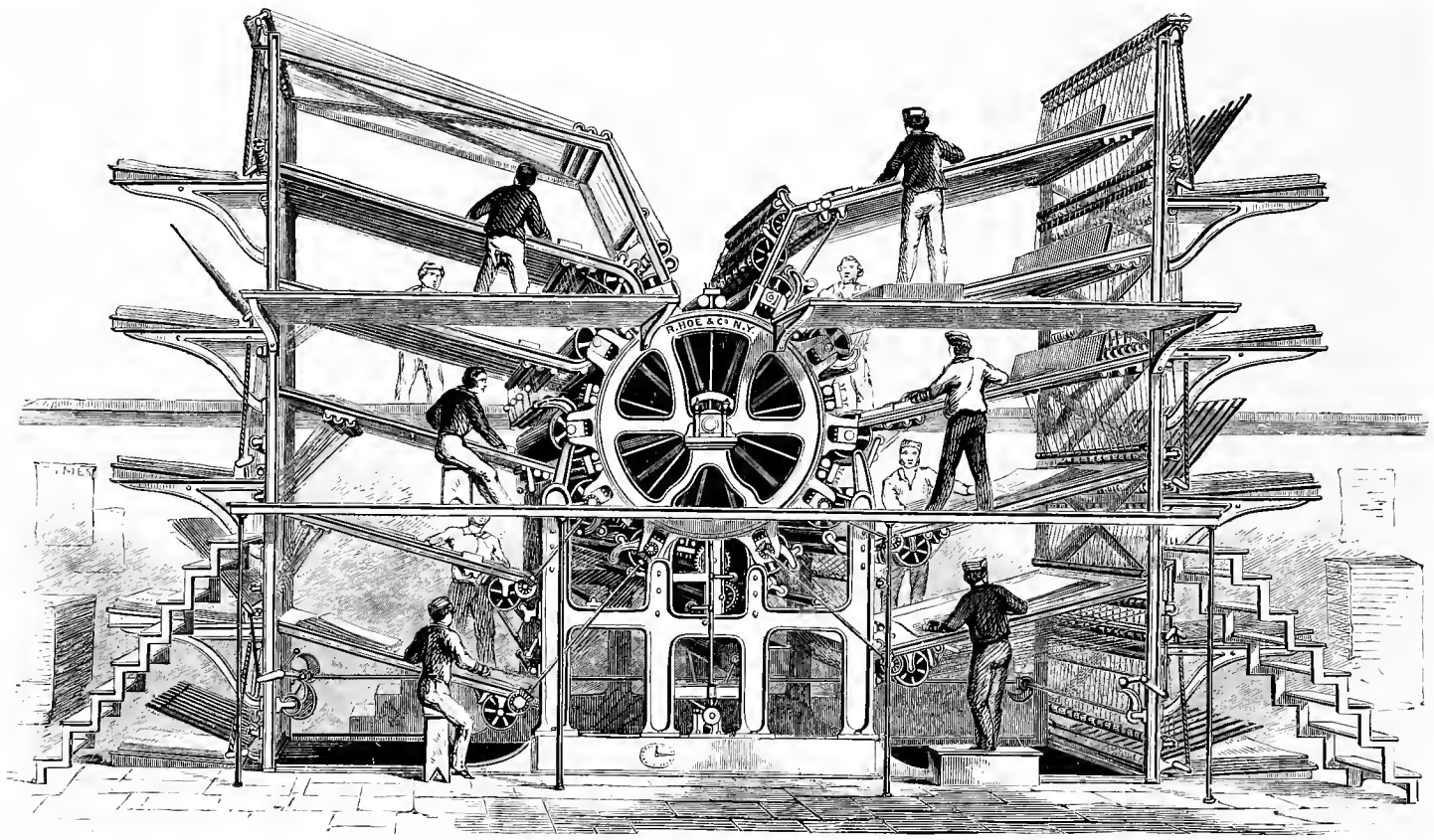
Eight Cylinder Type-Revolving Printing Machine.



DIMENSIONS AND PRICES.

	FOLIO SHEETS.			QUARTO SHEETS.				
	No. 1.	**No. 2.**	**No. 3.**	**No. 4.**	**No. 5.**	**No. 6.**	**No. 7.**	**No. 8.**
Size of page of matter,	18½ × 26 in.	22½ × 31 in.	29½ × 36 in.	14 × 19 in.	16 × 21½ in.	18 × 24 in.	20 × 26½ in.	22 × 29 in.
" whole "	26 × 38 "	31 × 46 "	36 × 60 "	29 × 40 "	33 × 45 "	37 × 50 "	41 × 55 "	45 × 60 "
" sheet of paper,	28 × 40 "	33 × 48 "	38 × 62 "	31 × 42 "	35 × 47 "	39 × 52 "	43 × 57 "	47 × 62 "
Width of centre margins,	1 "	1 "	1 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "	1 and 2 "
" outside "	1 "	1 "	1 "	1 "	1 "	1 "	1 "	1 "
Size of rubber blanket,	30 × 42 "	35 × 50 "	40 × 64 "	33 × 44 "	37 × 49 "	41 × 54 "	45 × 59 "	49 × 64 "
" cloth "	30 × 43 "	35 × 50 "	40 × 65 "	34 × 44 "	38 × 49 "	42 × 54 "	50 × 59 "	50 × 64 "
" type-bed tables,	21 × 28 "	24 × 32 "	30 × 40 "	18 × 24 "	18 × 24 "	21 × 28 "	24 × 32 "	24 × 32 "
Number of type-beds,	4 "	4 "	4 "	8 "	8 "	8 "	8 "	8 "
Length of sheet-flyers,	40 "	47 "	59 "	31 "	35 "	39 "	43 "	46 "
" machine,	31 ft. 0 "	31 ft. 6 "	33 ft. 6 "	31 ft. 0 "	31 ft. 0 "	31 ft. 0 "	31 ft. 0 "	31 ft. 6 "
Width of machine between sides,	36 "	41 "	46 "	51 "	56 "	61 "	66 "	71 "
" " includ'g platforms,	11 " 6 "	11 " 11 "	12 " 4 "	12 " 9 "	13 " 2 "	13 " 7 "	14 " 0 "	14 " 5 "
" front platform,	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "	2 " 6 "
" rear platform,	5 " 6 "	5 " 6 "	5 " 6 "	5 " 6 "	5 " 6 "	5 " 6 "	5 " 6 "	5 " 6 "
Height of machine,	15 " 6 "	18 " 0 "	22 " 0 "	15 " 0 "	15 " 0 "	15 " 2 "	16 " 6 "	17 "10 "
Length of room required,	37 " 0 "	38 " 6 "	40 " 0 "	37 " 0 "	37 " 0 "	37 " 0 "	37 " 0 "	37 " 6 "
Width " "	15 " 6 "	16 " 0 "	16 " 6 "	17 " 0 "	17 " 6 "	18 " 0 "	18 " 6 "	19 " 0 "
Height " "	16 " 0 "	18 " 6 "	22 " 6 "	15 " 6 "	15 " 6 "	15 " 8 "	17 " 0 "	18 " 4 "
Size of side-frame,	10 × 8.2 × 1.3.	10 × 8.2 × 1.3.	11 × 8.2 × 1.3.	10 × 8.2 × 1.3.	10 × 8.2 × 1.3.	10 × 8.2 × 1.3.	10 × 8.2 × 1.3.	10 × 8.2 × 1.3.
" main cylinder,	4.9 dia. × 4.7.	4.9 dia. × 5.	4.9 dia. × 5.5.	4.9 dia. × 5.10.	4.9 dia. × 6.3.	4.9 dia. × 6.8.	4.9 dia. × 7.1.	4.9 dia. × 7.6.
Weight of entire press boxed,	42,000 lbs.	44,000 lbs.	46,000 lbs,	48,000 lbs.	50,000 lbs.	52,000 lbs.	54,000 lbs.	56,000 lbs.
" heaviest piece,	2,200 "	2,200 "	2,200 "	2,200 "	2,200 "	2,200 "	2,300 "	2,300 "
Power required to drive machine,	5 H. P.	5 H. P.	5 H. P.	6 H. P.	6 H. P.	6 H. P.	7 H. P.	7 H. P.
Price of machine,	$	$	$	$	$	$	$	$
" extra bed,								
" bed table,								
" brass galley,								
" proof press,								
" form truck,								
" boxing and carting,								
Remarks,								

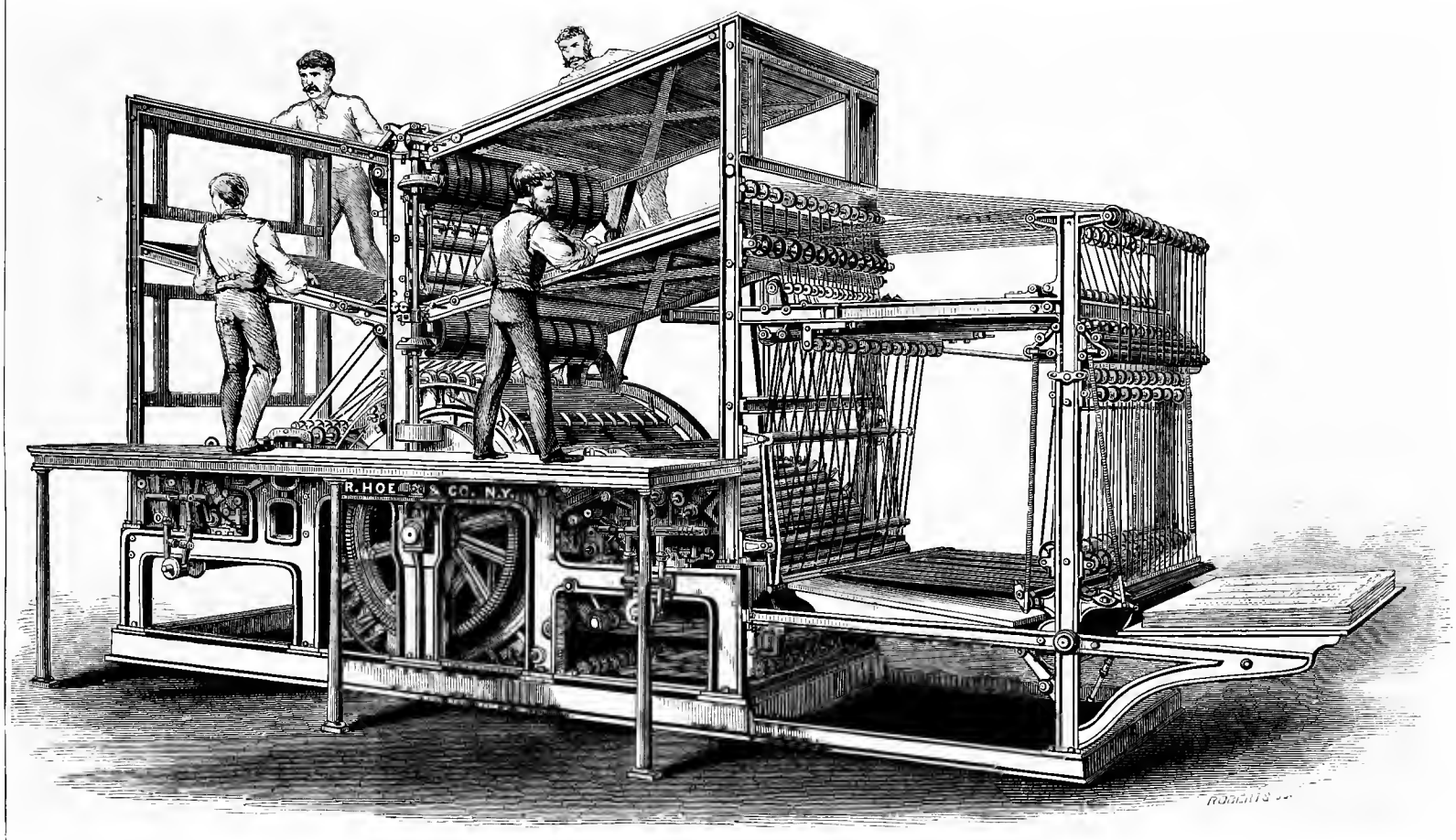
Ten Cylinder Type-Revolving Printing Machine.



DIMENSIONS AND PRICES.

	FOLIO SHEET.			QUARTO SHEET.				
	No. 1.	**No. 2.**	**No. 3.**	**No. 4.**	**No. 5.**	**No. 6.**	**No. 7.**	**No. 8.**
Size of page of matter,	17½ × 26 in.	.....	.....	14 × 19 in.	16 × 21½ in.	17½ × 24 in.	.....	.....
" whole "	26 × 36 "	.....	.....	29 × 40 "	33 × 45 "	36 × 50 "	.....	.....
" sheet of paper,	28 × 38 "	.....	.....	31 × 42 "	35 × 47 "	38 × 52 "	.....	.....
Width of centre margins,	1 "	.....	.....	1 and 2 "	1 and 2 "	1 and 2 "	.....	.....
" outside "	1 "	.....	.....	1 "	1 "	1 "	.....	.....
Size of rubber blanket,	30 × 40 "	.....	.....	33 × 44 "	37 × 49 "	40 × 54 "	.....	.....
" cloth "	30 × 40 "	.....	.....	34 × 44 "	40 × 49 "	40 × 54 "	.....	.....
" type-bed tables,	21 × 28 "	.....	.....	18 × 24 "	18 × 24 "	21 × 28 "	.....	.....
Number of type-beds,	4 "	.....	.....	8 "	8 "	8 "	.....	.....
Length of sheet-flyers,	37 "	.....	.....	31 "	35 "	37 "	.....	.....
" machine,	31 ft. 0 "	.....	.....	31 ft. 0 "	31 ft. 0 "	31 ft. 0 "	.....	.....
Width of machine between sides,	36 "	41 in.	46 in.	51 "	56 "	61 "	66 in.	71 in.
" " includ'g platforms,	14 " 6 "	.....	.....	15 " 9 "	16 " 2 "	16 " 7 "	.....	.....
" front platform,	5 " 1 "	.....	.....	5 " 0 "	5 " 0 "	5 " 0 "	.....	.....
" rear platform,	11.6 " 0 "	.....	.....	6 " 0 "	6 " 0 "	6 " 0 "	.....	.....
Height of machine,	18 " 0 "	.....	.....	15 " 6 "	17 " 2 "	18 " 0 "	.....	.....
Length of room required,	37 " 0 "	.....	.....	37 " 0 "	37 " 0 "	37 " 0 "	.....	.....
Width " "	18 " 6 "	.....	.....	20 " 0 "	20 " 6 "	21 " 0 "	.....	.....
Height " "	18 " 6 "	.....	.....	16 " 0 "	17 " 8 "	18 " 6 "	.....	.....
Size of side-frame,	4. × 8.2 × 1.3.	.....	.....	11. × 8.2 × 1.3.	11. × 8.2 × 1.3.	11. × 8.2 × 1.3.	.....	.....
" main cylinder,	4.9 dia. × 4.7.	.....	.....	4.9 dia. × 5.10.	4.9 dia. × 6.3.	4.9 dia. × 6.8.	.....	.....
Weight of entire press boxed,	52,000 lbs.	.....	.....	58,000 lbs.	60,000 lbs.	62,000 lbs.	.....	.....
" heaviest piece,	2,500 "	.....	.....	2,500 "	2,500 "	2,500 "	.....	.....
Power required to drive machine,	6 H. P.	.....	.....	7 H. P.	7 H. P.	8 H. P.	.....	.....
Price of machine with beds as above,	$	$	$	$	$	$	$	$
" extra type-bed,								
" type-bed tables,								
" brass galleys,								
" proof press,								
" form truck,								
" boxing and carting,								

Rotary Perfecting Newspaper Press.



THIS Machine is designed to work exclusively from stereotype plates, and, as its name implies, prints both sides of the sheet at one operation. Two impression cylinders and two form cylinders are placed side by side in a horizontal frame, the impression cylinders occupying the centre, with the form cylinders at each end. The two forms are secured to their cylinders and inked in much the same manner as in our Type-Revolving Machines, the fountains and distributing cylinders being placed at the ends of the press. The sheets are supplied by feeders in the usual manner. They are delivered by a feeding cylinder to the first impression cylinder, whence they go to the second impression cylinder and are then conducted right and left alternately to a sheet flyer at each end.

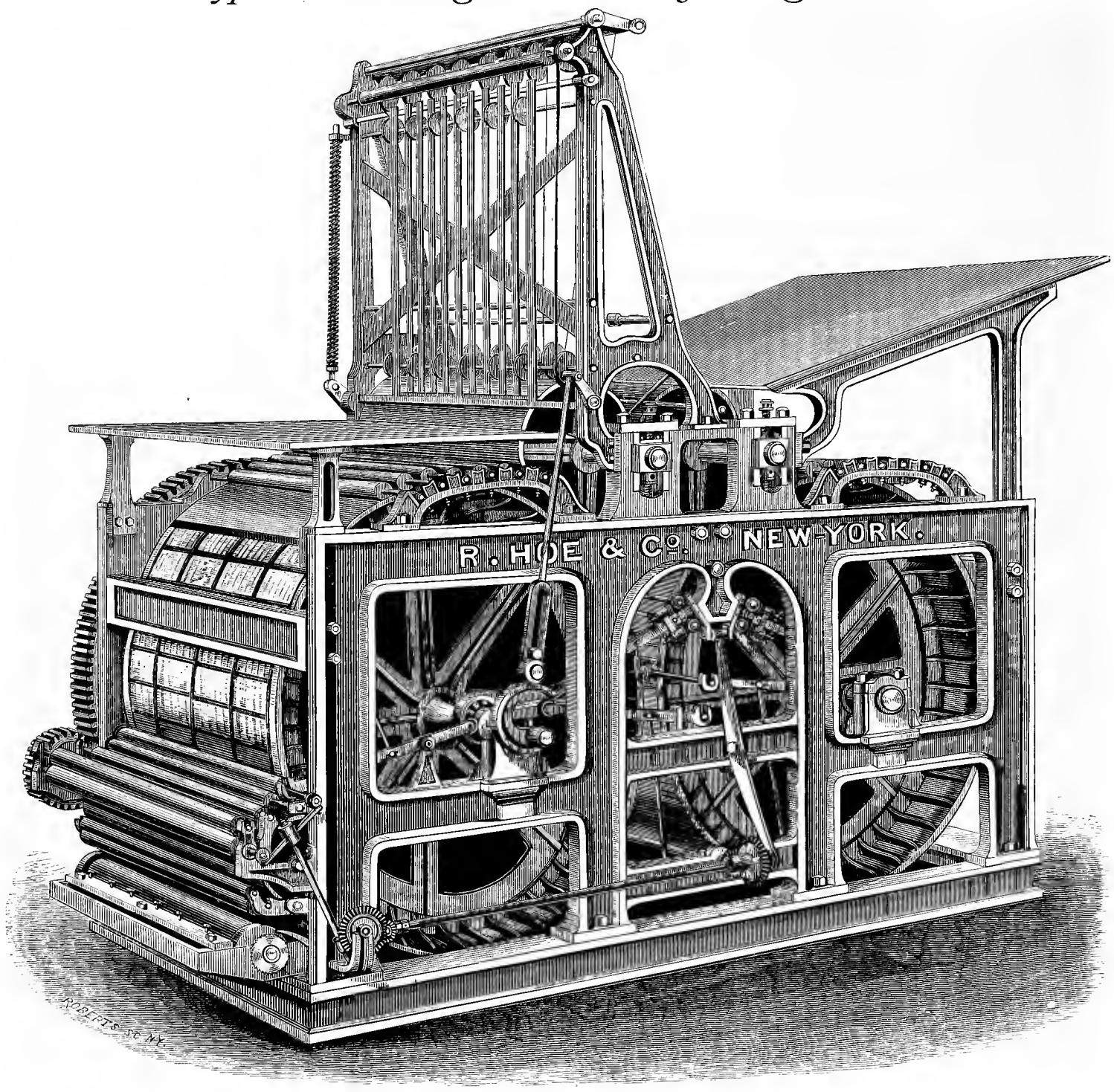
A Two-Feeder Machine will print, per hour, from 4000 to 5000 perfected eight-page sheets of ordinary size, or will print and cut from 8000 to 10,000 perfected four-page sheets of ordinary size. The No. 4 Machine occupies a space about eighteen feet long, eight and a half feet wide, and six and a half feet high.

A Four-Feeder Machine will print double the above quantity, or from 8000 to 10,000 eight-page sheets and from 16,000 to 20,000 four page sheets of ordinary size per hour.

DIMENSIONS AND PRICES.

No. 1.	Takes on Four pages	$16 \times 21\frac{1}{2}$	inches, or Two pages,	22	$\times 28$	inches—total size of matter,	34×45	inches, .	Price, $
No. 2.	"	"	"	18×24	"	"	$24\frac{1}{2} \times 32$	"	"	"	37×50	"	.
No. 3.	"	"	"	$20 \times 26\frac{1}{2}$	"	"		"	"	"	41×55	"	"
No. 4.	"	"	"	22×29	"	"		"	"	"	45×60	"	. . "

Type Revolving Book Perfecting Press.



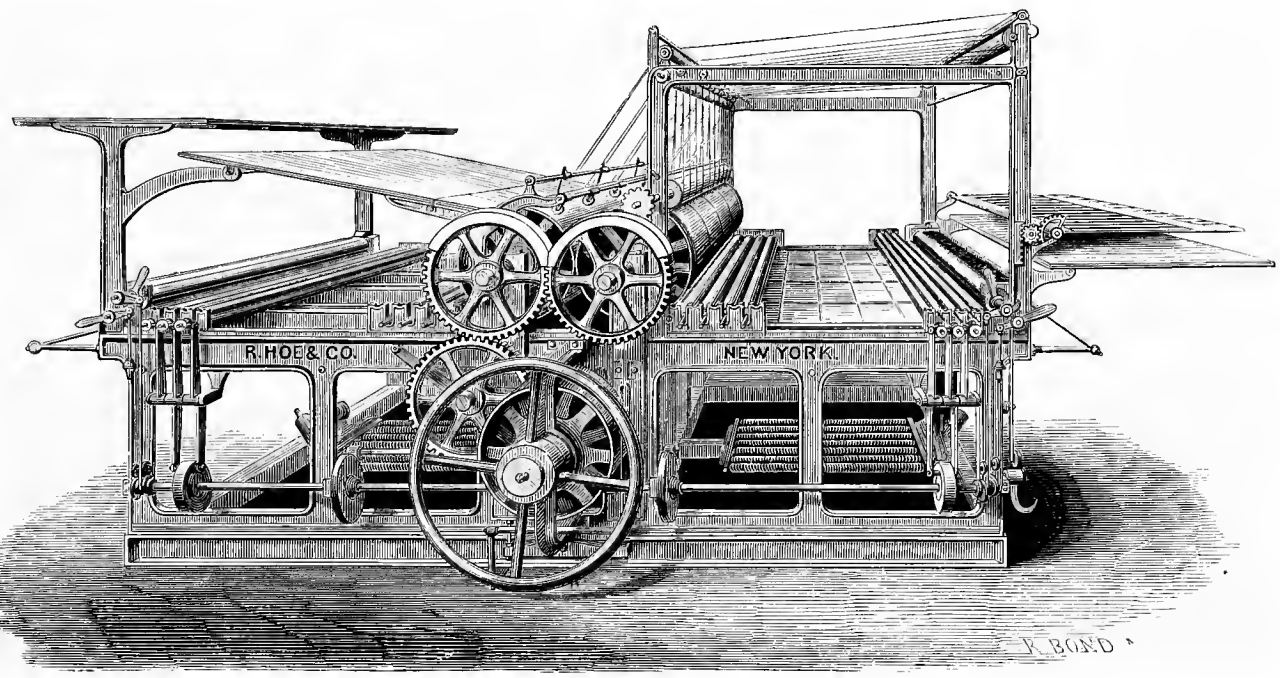
As the name indicates, this is a rotary machine the forms being secured on the surface of two large horizontal cylinders. This construction, as it does away with the reciprocating motion, admits of a greater speed in printing than any other, and the distribution of the ink also is more perfect, there being room for from six to twelve inking rollers to each form. The machine is equally well adapted to letterpress, stereotype, and wood-cut work, and will print from 1500 to 2000 perfected sheets per hour, the only limit to its speed being the capability of the feeder to supply the paper. As it dispenses with the registering apparatus, and is furnished with a self-acting sheet flyer only one attendant is required for a press of the largest size.

DIMENSIONS AND PRICES.

No. 1,	Bed	28 × 41	inches,	Matter	24 × 37	inches,	$
No. 2,	"	31 × 46	"	"	27 × 42	"	
No. 3,	"	34 × 50	"	"	30 × 46	"	
No. 4,	"	37 × 54	"	"	33 × 50	"	
No. 5,	"	40 × 60	"	"	36 × 56	"	

Boxing and shipping, or carting and putting-up, extra.

Flat Bed Perfecting Press.



In this machine the bed has a reciprocating motion, the paper being transferred automatically from the first impression cylinder to the second, and then conducted by tapes to the self-acting sheet-flyer. The second cylinder is provided with reels holding a large roll of facing blanket, which, as it becomes soiled by the set-off from the first side of the sheet, is rolled up and a fresh portion brought into use.

When so ordered, an additional feed-board, from which a set-off sheet may be fed to the second impression cylinder, is furnished, the two sheets being thrown out together on the fly-board and separated by hand; or, if desired, a sheet-flyer is added for the set-off sheet, which is then separated automatically from the printed sheet and flown on a separate board.

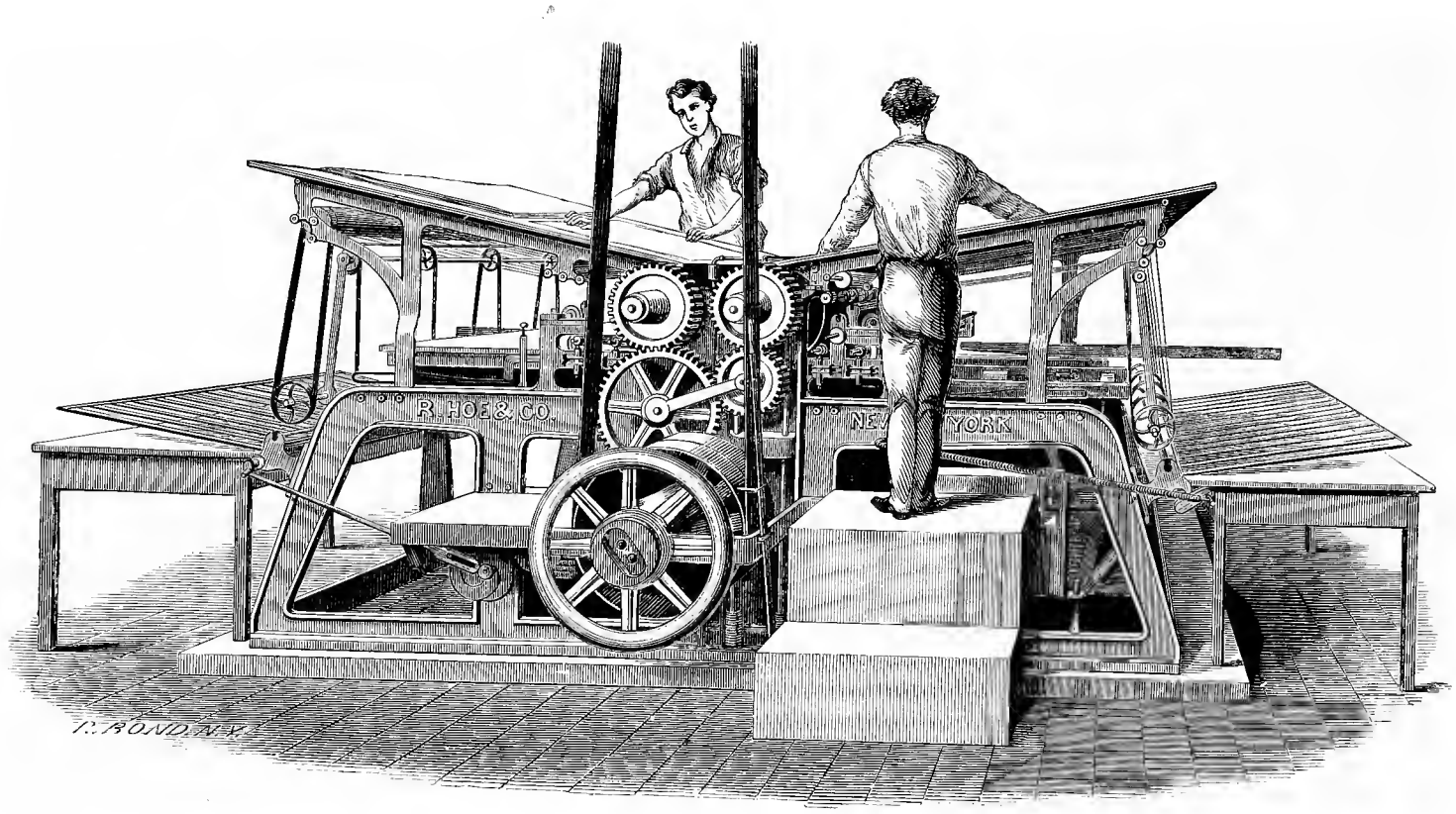
The machine is made very strong and heavy throughout, and will work from type, stereotype, or electrotype, with equal facility. It has four inking rollers over the entire form, a table distribution, and all our modern improvements.

DIMENSIONS AND PRICES.

No. 1,	Bed	28 × 41	inches,	Matter	24 × 37	inches, ... $
No. 2,	"	31 × 46	"	"	27 × 42	" . . . . .
No. 3,	"	34 × 50	"	"	30 × 46	" . . . . .
No. 4,	"	37 × 54	"	"	33 × 50	" . . . . .
No. 5,	"	40 × 60	"	"	36 × 56	" . . . . .

Boxing and shipping, or carting and putting-up, extra.

Double Cylinder Printing Machine.



In this machine the form is placed on a flat bed, and the impression taken by means of two cylinders, each of which alternately takes a sheet and receives an impression from the form while it is passing under them. The sheets are supplied by two attendants. The self-sheet flying apparatus is furnished in all cases.

The large amount of printing ordinarily done on these presses, and the consequent speed required, have rendered necessary greatly increased strength in all the parts, together with simplicity in the mechanical arrangements, and the utmost perfection of workmanship. Both rollers go over the entire form.

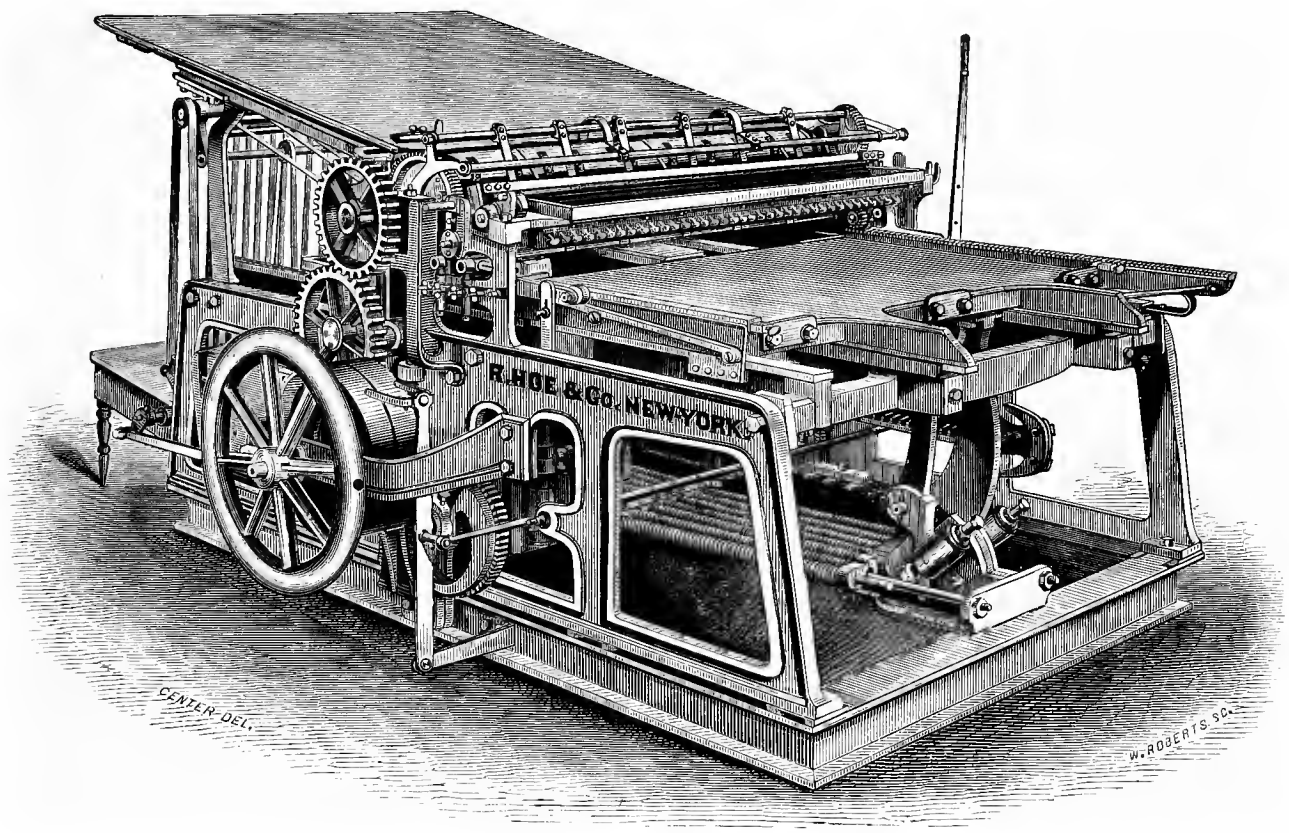
The prices include Sheet-flyers, Counter-shaft, Hangers, Driving Pulley, two Cone Pulleys, two sets Roller Stocks, two Roller Moulds and Blankets. Boxing and shipping, or carting and putting-up, extra.

A reduction will be made for any of the above articles not required.

DIMENSIONS AND PRICES.

No. 5, Bed,	29×42 inches,		Matter, 24×37 inches,	$
No. 6, "	32×47 "		" 27×42 "	
No. 7, "	35×51 "		" 30×46 "	
No. 8, "	38×55 "		" 33×50 "	
No. 9, "	41×58 "		" 36×53 "	

Single Small Cylinder Printing Machine.



In its arrangement this is similar to the Double Cylinder Machine. The small size of the cylinder allows of a very compact construction, thus shortening the distance which the bed travels, and so increasing the speed that from 2000 to 3000 impressions per hour may be obtained with perfect safety. Only one attendant is required, as the printed sheets are thrown down by a fly-frame. Register sufficiently accurate for newspaper and job work is secured by the patent feed guides which are attached to each press.

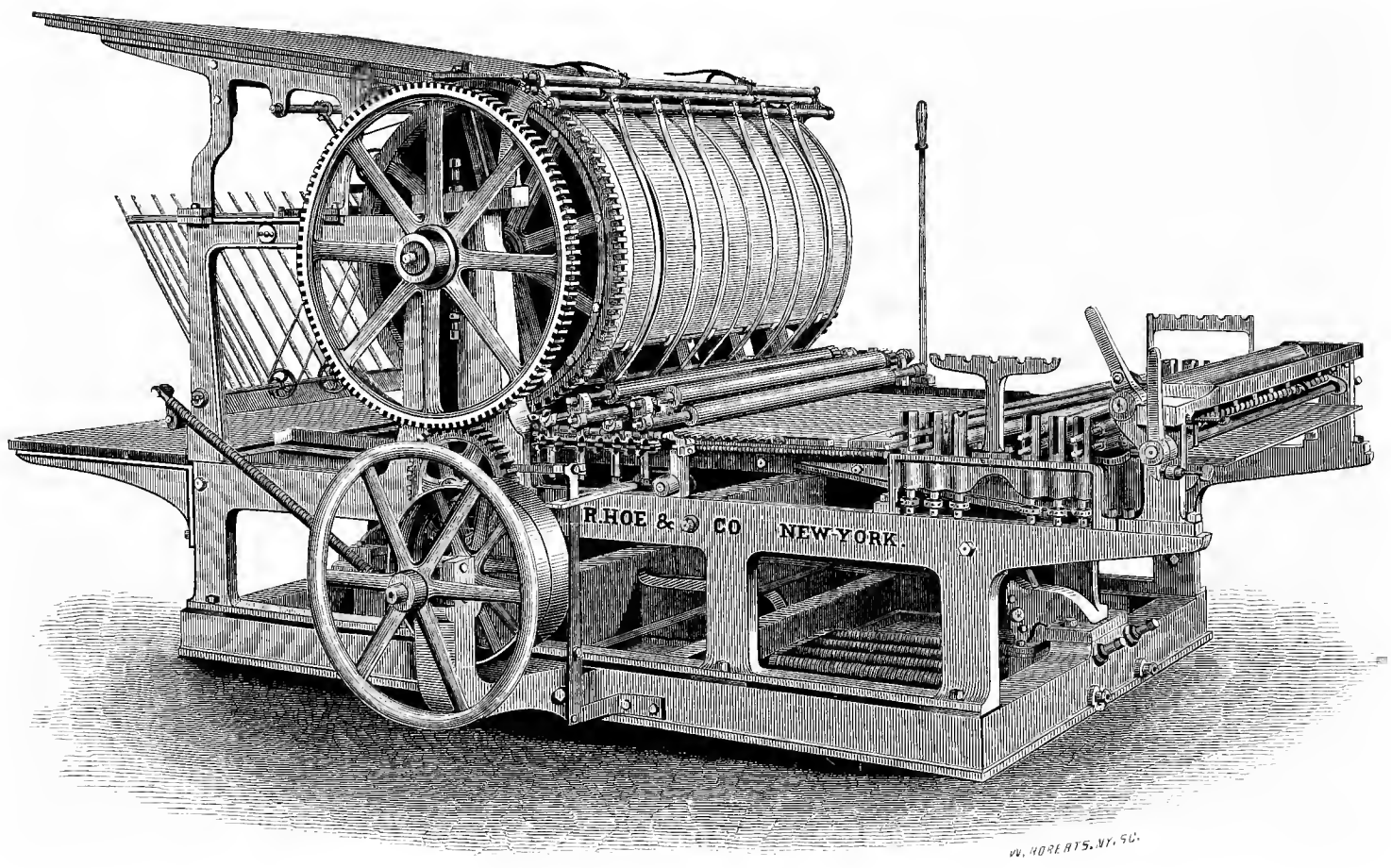
This press is made in the most substantial manner, and is accompanied by Sheet-Flyers, Counter Shaft, Hangers, Driving Pulley, two Cone Pulleys, two sets Roller Stocks, and two Roller Moulds. A reduction will be made for any of the articles not required. The whole form is inked by both rollers.

DIMENSIONS AND PRICES.

No. 4,	Bed, 26 × 34 inches,	Matter, 21 × 29 inches,		$
No. 5,	" 29 × 42 "	" 24 × 37 "		
No. 6,	" 32 × 47 "	" 27 × 42 "		
No. 7,	" 35 × 51 "	" 30 × 46 "		
No. 8,	" 35 × 53 "	" 33 × 50 "		
No. 9,	" 41 × 58 "	" 36 × 53 "		

Single Large Cylinder Printing Machine.

FOUR ROLLERS.



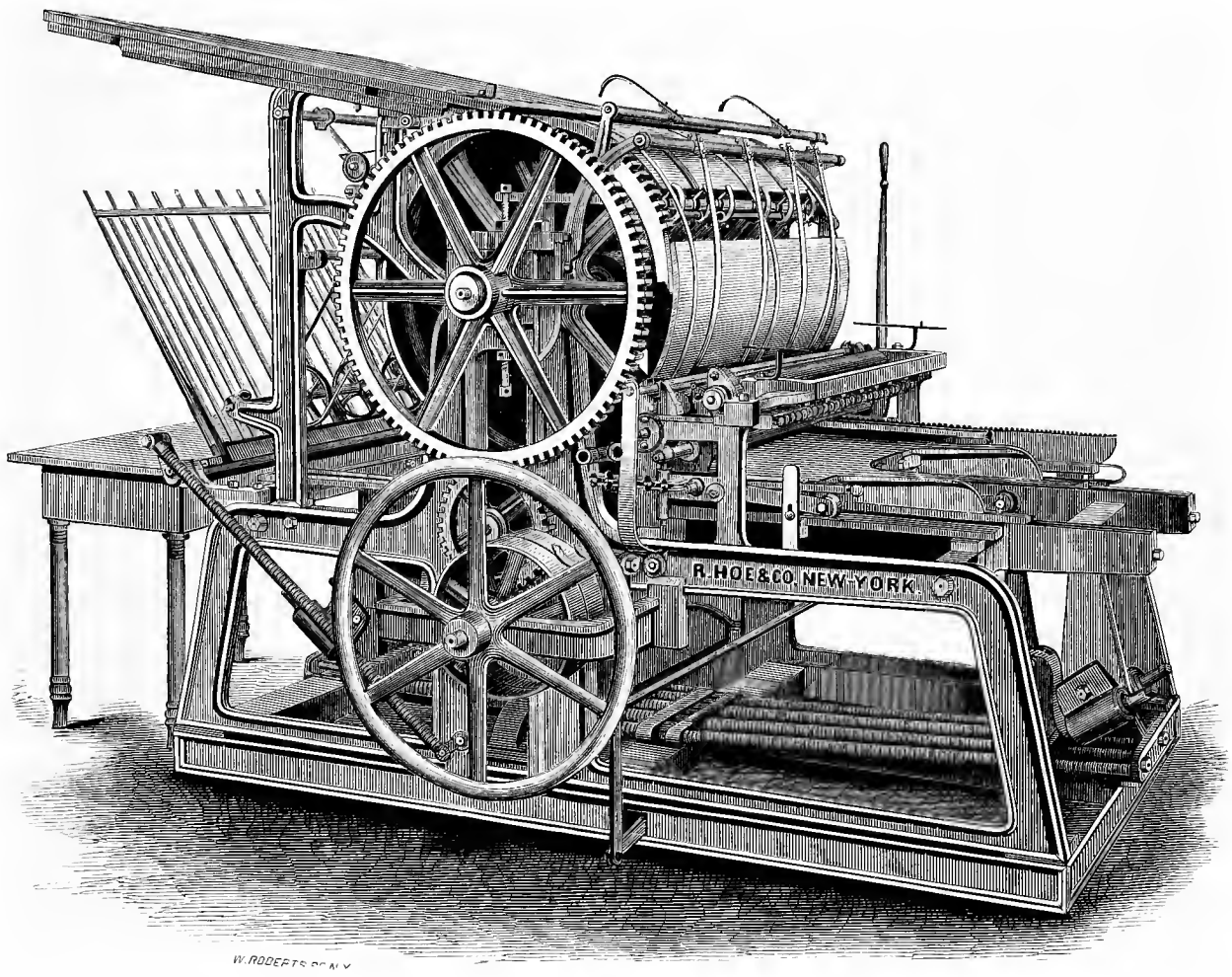
THIS machine we have just completed with the intention of producing the best possible press on the *large cylinder* principle. It is exceedingly solid and durable, and is provided with all the improvements and conveniences that experience can suggest. The frames are of a new design, and of great rigidity; and, by a new arrangement of the springs, the whole press stands much lower on the floor, and runs without noise or jar. The distribution is either by a table or by rack and pinion, as may be preferred. With each press go two roller moulds, two sets of stocks, one set of blankets and apparatus for steam power. All four rollers go over the whole form.

DIMENSIONS AND PRICES.

			$
No. 1,	Bed 17 × 21 inches,	Matter 13 × 17 inches,	
No. 2,	" 20 × 25 "	" 15 × 20 "	
No. 3,	" 24 × 29 "	" 19 × 24 "	
No. 4,	" 26 × 34 "	" 21 × 29 "	
No. 5,	" 29 × 42 "	" 24 × 37 "	
No. 6,	" 32 × 47 "	" 27 × 42 "	
No. 7,	" 35 × 51 "	" 30 × 46 "	
No. 8,	" 38 × 55 "	" 33 × 50 "	
No. 9,	" 41 × 58 "	" 36 × 53 "	

Single Large Cylinder Printing Machine.

TWO ROLLERS.

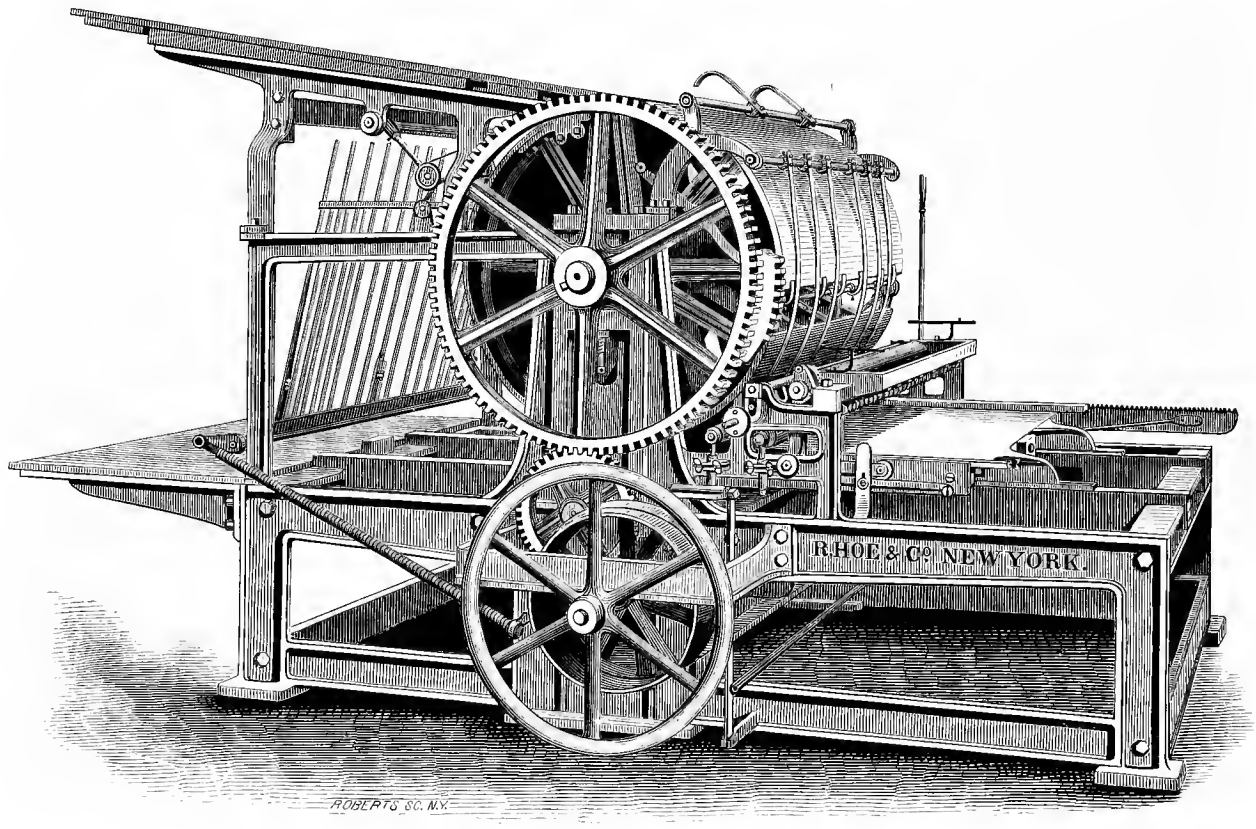


THIS Press is adapted to fine newspaper work and to every kind of job work, from colored posters to the most delicate script on dry paper. It is provided with all modern conveniences, as registering apparatus, taper bearers regulated by set screws, adjustable feed guides and open fountain, as well as some new devices for taking up wear, so as to render the press both more accurate and more durable. It will print from one thousand to twenty-five hundred impressions per hour, according to the size of the press, and the quality of the work. With each press are sent two sets of roller stocks, two roller moulds, one set of blankets, countershaft, hangers, driving pulley, and two cone pulleys. When small sizes are desired to run by hand power, a fly-wheel and stand of suitable size will be furnished instead of the countershaft. Both rollers go over the entire form.

DIMENSIONS AND PRICES.

			$
No. 1,	Bed 17 × 21 inches,	Matter 13 × 17 inches,	
No. 2,	" 20 × 25 "	" 15 × 20 "	
No. 3,	" 24 × 29 "	" 19 × 24 "	
No. 4,	" 26 × 34 "	" 21 × 29 "	
No. 5,	" 29 × 42 "	" 24 × 37 "	
No. 6,	" 32 × 47 "	" 27 × 42 "	
No. 7,	" 35 × 51 "	" 30 × 46 "	
No. 8,	" 38 × 55 "	" 33 × 50 "	
No. 9,	" 41 × 58 "	" 36 × 53 "	

Single Large Cylinder Hand Printing Machine.

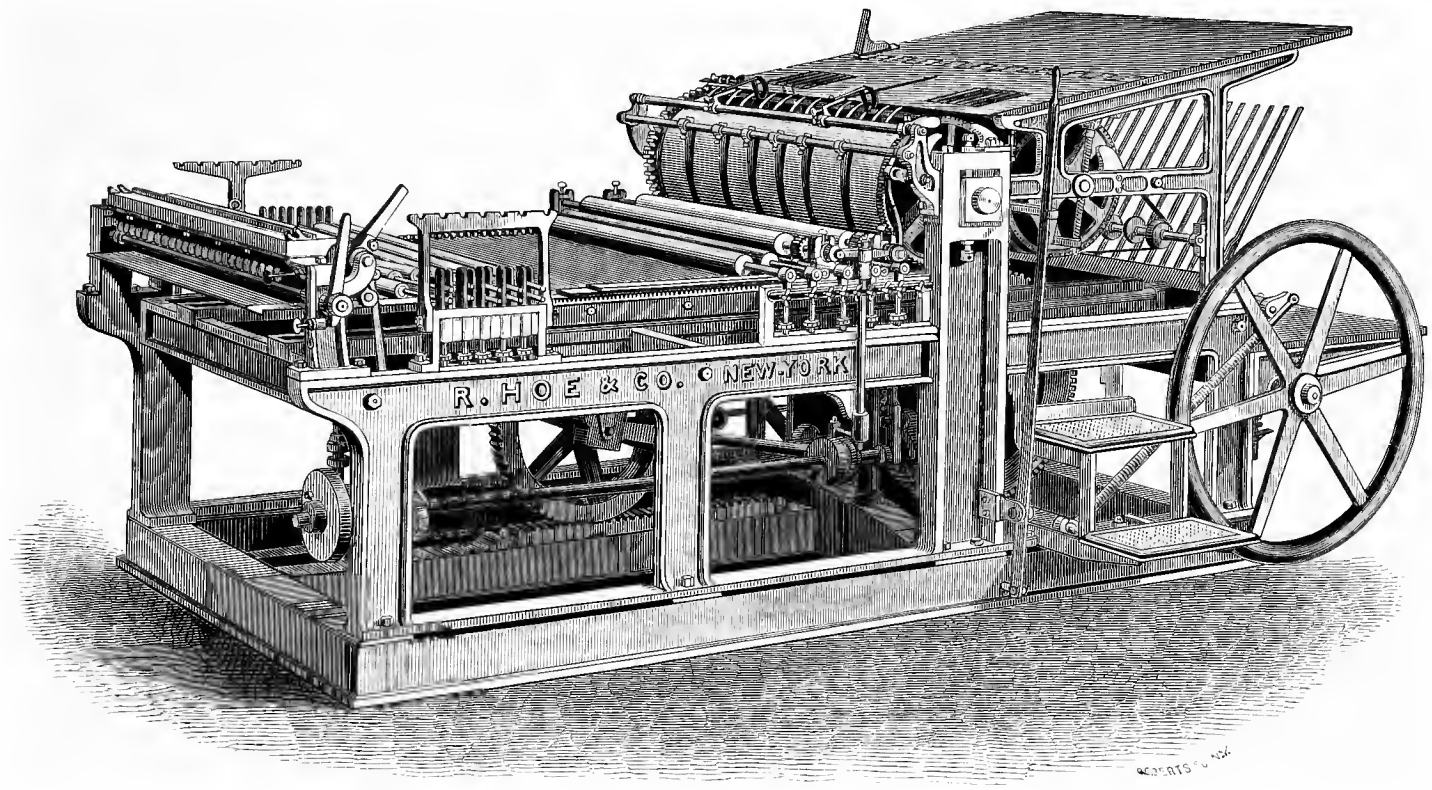


THIS Press is similar to our "Single Large Cylinder," but is somewhat lighter, and more simple in construction. It is intended to supply newspapers of moderate circulation with a plain but good machine on which general job work can be done. It is designed to run either by hand or steam power. With one man at the wheel, it will work off eight hundred impressions per hour; and, by applying steam power, its speed may be increased from twenty-five to fifty per cent. It has two inking rollers, which go over the whole form.

DIMENSIONS AND PRICES.

No. 5, . .	Bed 29 × 42 inches, .	Matter 24 × 37 inches, ...	$
No. 6, . .	" 32 × 47 "	" 27 × 42 "	
No. 7, . .	" 35 × 51 "	" 30 × 46 "	
	Apparatus for Steam Power, .	$	

Stop Cylinder Wood-Cut Press.



THIS machine is of a new pattern, and designed for the finest kinds of Book, Wood-cut, and Color printing The distribution is either by an inking table or vibrating cylinder as may be desired, and the number of form rollers, from two to ten according to size, as per table below. The bed is driven by a crank, without bed-springs, and without the slightest jar. The impression cylinder is stationary during the return of the bed, and the fingers close on the sheet before the register points are withdrawn; the cylinder then revolves, and, as it gears directly into the bed, perfect register is obtained. The fingers never require shifting, whatever the size of the form, and no tapes are used. When so ordered, the bed is arranged to be run either once or twice, thus passing the form under the inking rollers either two or four times to each impression as may be required.

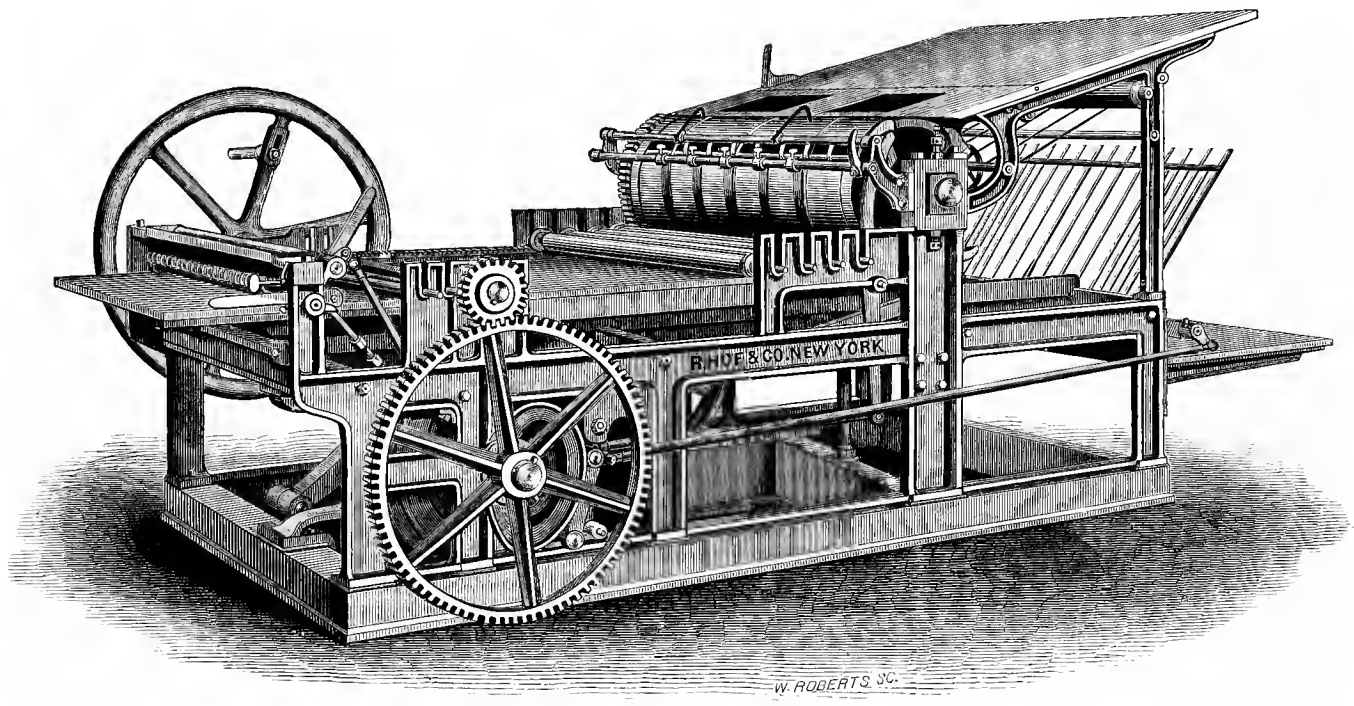
DIMENSIONS AND PRICES.

	Size of Bed inside of Bearers.	Size of Matter Printed.	No. of Inking Rollers passing over the Form.	Price with Apparatus to Roll Once.	Price with Apparatus to Roll Twice.	Price with Apparatus to Roll Three Times.
No. 1,	17 × 21 inches,	13 × 17 inches,	2,	$	$	$
No. 2,	20 × 25 "	15 × 20 "	4,			
No. 3,	24 × 29 "	19 × 24 "	4,			
No 4,	26 × 34 "	21 × 29 "	4,			
No. 5,	29 × 42 "	24 × 37 "	5,			
No. 6,	32 × 47 "	27 × 42 "	6,			
No. 7,	35 × 51 "	30 × 46 "	6,			
No. 8,	38 × 55 "	33 × 50 "	7,			
No. 9,	41 × 58 "	36 × 53 "	8,			
No. 10,	45 × 61 "	40 × 56 "	9,			

The prices include Counter-shaft, Hangers, Driving Pulley, two Cone Pulleys, two sets Roller Stocks, Blankets, and Roller Moulds.

A reduction will be made for any of these articles not required.

Hand Stop-Cylinder Printing Machine.

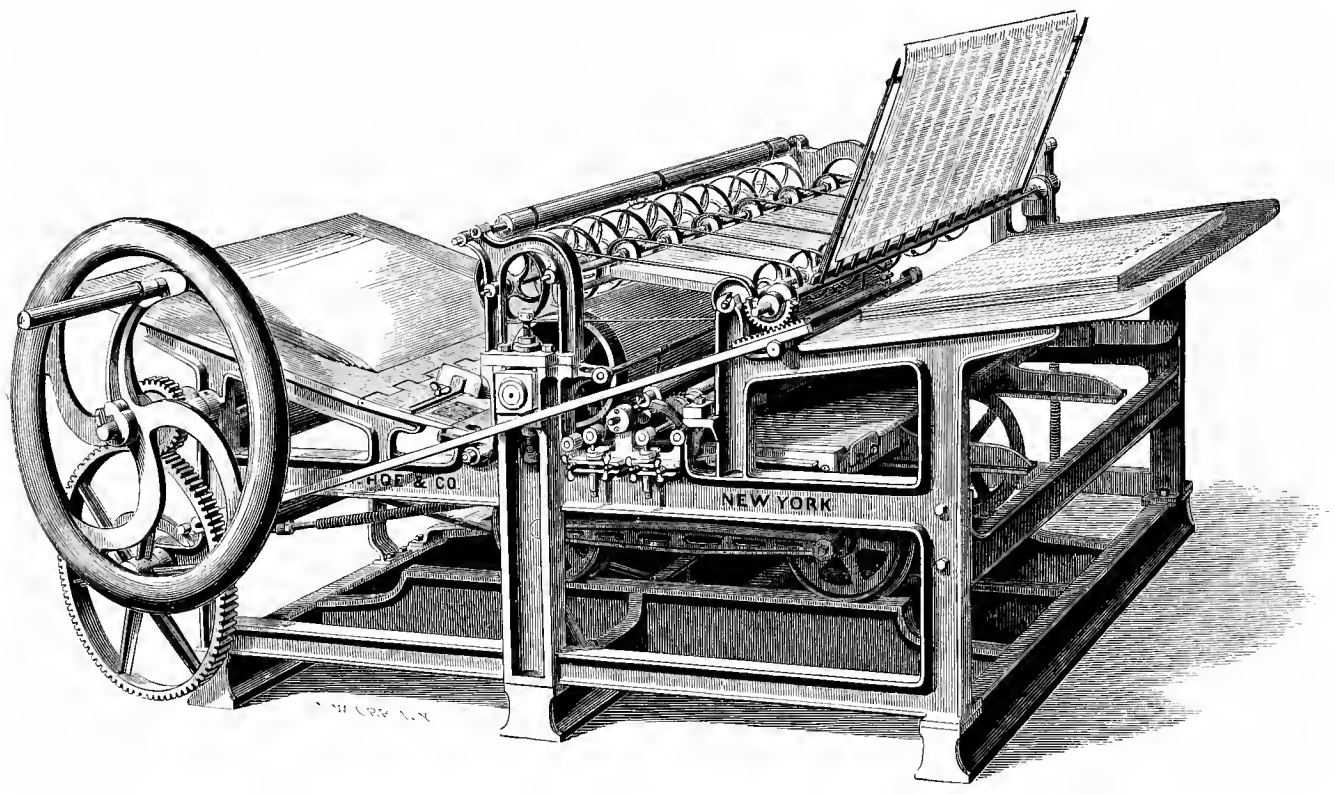


THIS Machine in its general design is similar to our well-known Stop-Cylinder Press, but is lighter in all its parts so as to be easily driven by hand. It will print satisfactorily all kinds of newspaper and ordinary book work at the rate of seven or eight hundred impressions an hour by hand, or one thousand by steam-power. The bed is driven by a crank, so that there is no jar at either end. The distribution of the ink is effected by the table and oblique roller system, and the form is inked by four rollers that pass over its entire surface. After a sheet is printed the cylinder remains stationary while the bed is running back, during which time a fresh sheet is placed in position; the fingers then close on the sheet before the cylinder starts and before the feed guide and register points are withdrawn, and as the cylinder gears directly into the bed, accurate register is secured. The press is provided with iron bearers, improved registering apparatus, open ink fountain, and all other modern improvements. The foundation or sole plate is a single casting of great strength.

DIMENSIONS AND PRICES.

No. 5, Bed, 29 × 42 inches,	Matter, 24 × 37 inches,		$
No. 6, " 32 × 47 "	" 27 × 42 "		
No. 7, " 35 × 51 "	" 30 × 46 "		
Apparatus to drive by Steam-power,	Extra, $		

Railway Newspaper Printing Machine.



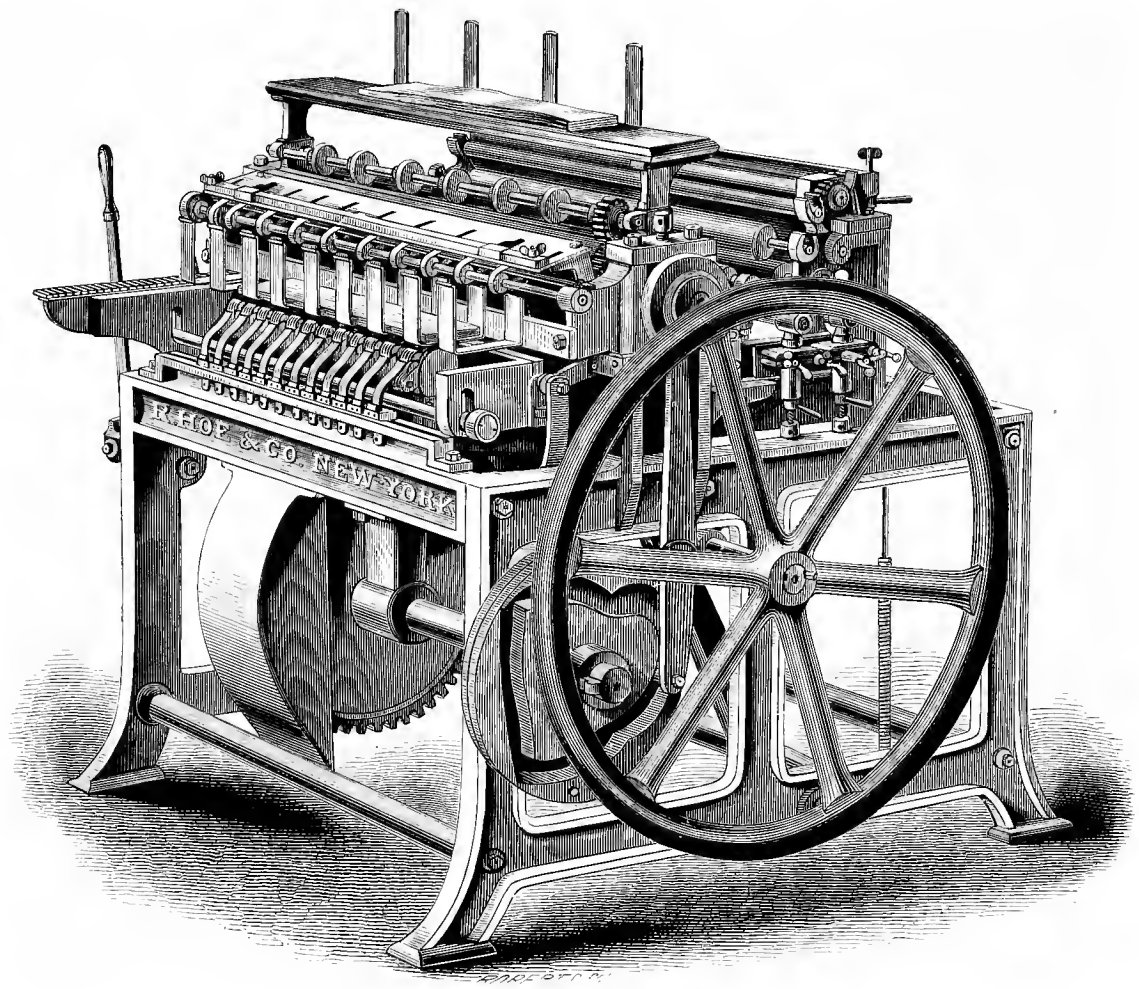
THIS Press is designed to supply newspapers of moderate circulation with a cheap and plain, but serviceable printing machine, capable of doing also the ordinary job work of a country office. It is intended to run exclusively by hand, at a speed of 700 or 800 impressions per hour, and at this rate will work without noise or jar.

The bed is carried by a truck upon a railway, and is driven by a crank motion. The paper is fed to the under side of the cylinder, which, after an impression is given, remains stationary while the bed returns, and the fingers close on the next sheet before it starts again. The cylinder wheel gears directly into a rack on the side of the bed, and excellent register is obtained without a pointing apparatus, although one is furnished without charge. The impression cylinder is not shifted to suit forms of different sizes, but the forward edge of the type is always placed on the same line on the bed.

The machine occupies a space 5½ × 10 feet, and can be worked in a room 7 feet high, and weighs 5600 lbs.

Size of Bed, 31 × 46 inches; matter, 23 × 42 inches, is inked by both rollers, and 27 × 42, by one roller.

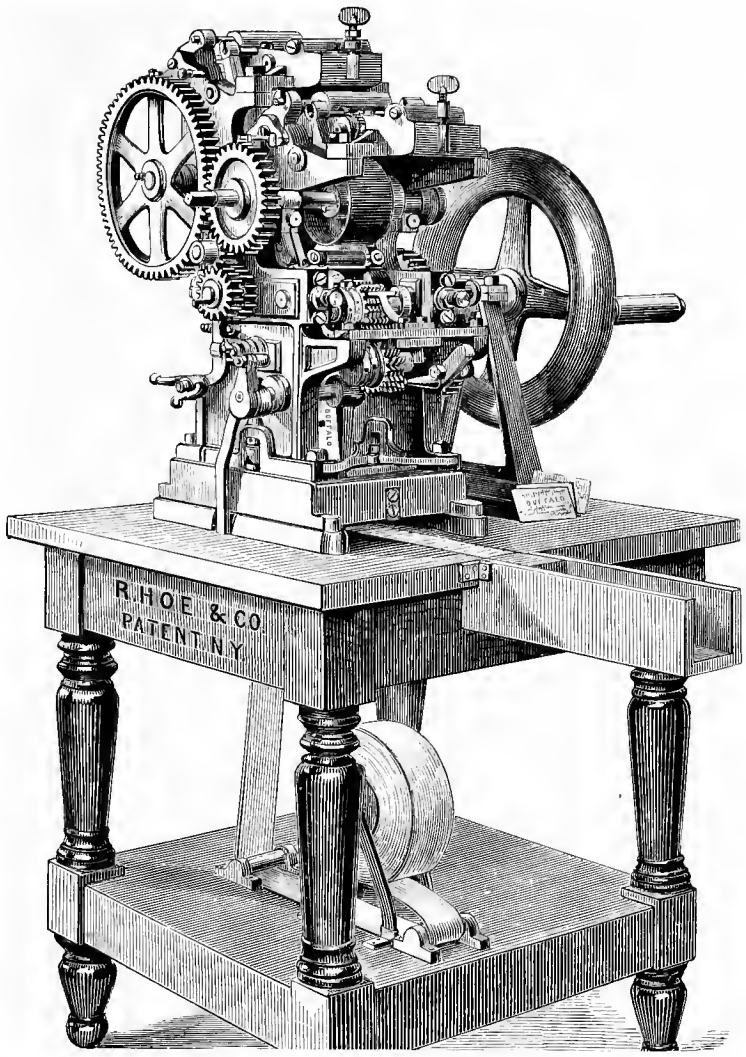
Patent Railway Coupon Ticket Printing and Numbering Machine.



THIS machine is a simple modification of our well-known Cylinder Press. The form and numbering wheels are put on a travelling bed, and receive their ink from the same rollers. The impression cylinder gears into the bed, turning forward and backward with it, and instead of fingers, it is furnished with cords, that run round in the spaces between the coupons. The feed-table delivers the paper under the cords, and it is carried down and the body of the ticket printed; then the motion of the cylinder is reversed, the ticket changes position and is presented to the numbering wheels. In its course, the ticket passes under the perforators, and is finally deposited in a receptacle, printed side upward, under the eye of the attendant. A numbering plate is arranged for each different spacing of coupons, so that no time is lost in adjusting the wheels. Local tickets can be printed in strips, and afterward cut up. The machine will print matter 3½ inches wide by 27 inches long, and will run with ease at the rate of 1500 sheets per hour.

Price, with three Numbering Plates, ... $

Numbering Wheels, and Perforators, per set, ...

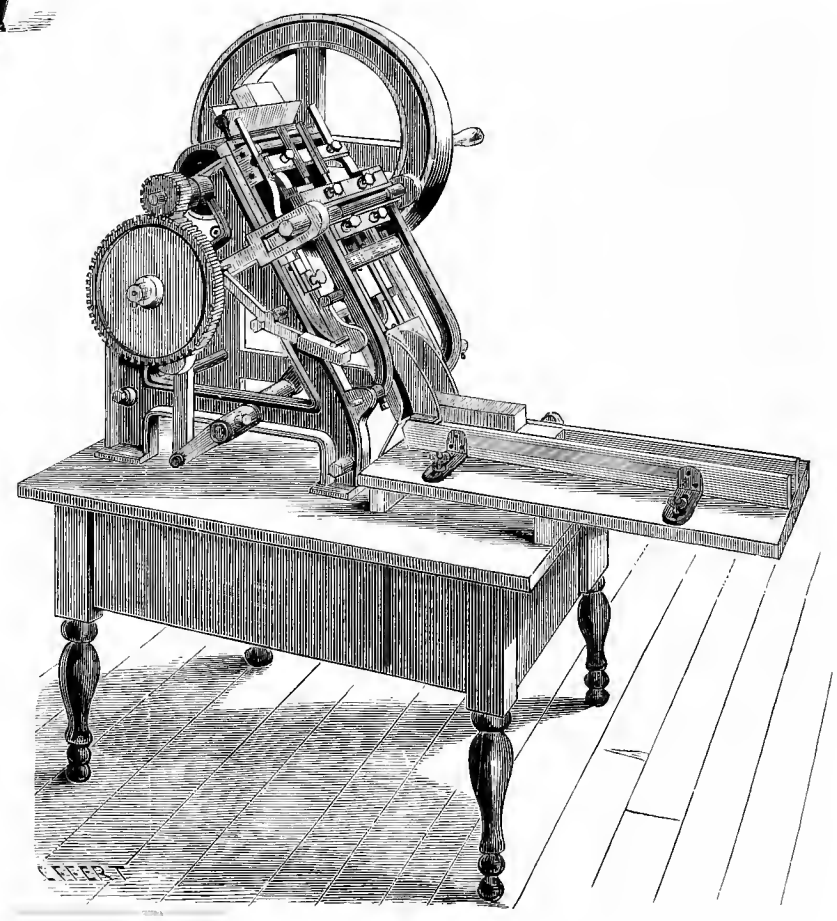


Patent Railway Rotary Ticket Machine.

In this machine the forms are placed on a cylinder, which has a continuous rotary movement. The tickets are worked from a roll, and are printed at the rate of 10,000 or 12,000 per hour, numbered, cut, and deposited in a receptacle in regular order, at a single operation. The number may be printed in a different color from the body of the ticket, and it can be changed with great facility. The machine occupies a space of about two feet square.

No. 1 prints Ticket 1½ × 2⅝ inches, . . $
" 2 " " 1¾ × 3⅛ " .

Other sizes made to order.



Patent Numbering Ticket Press.

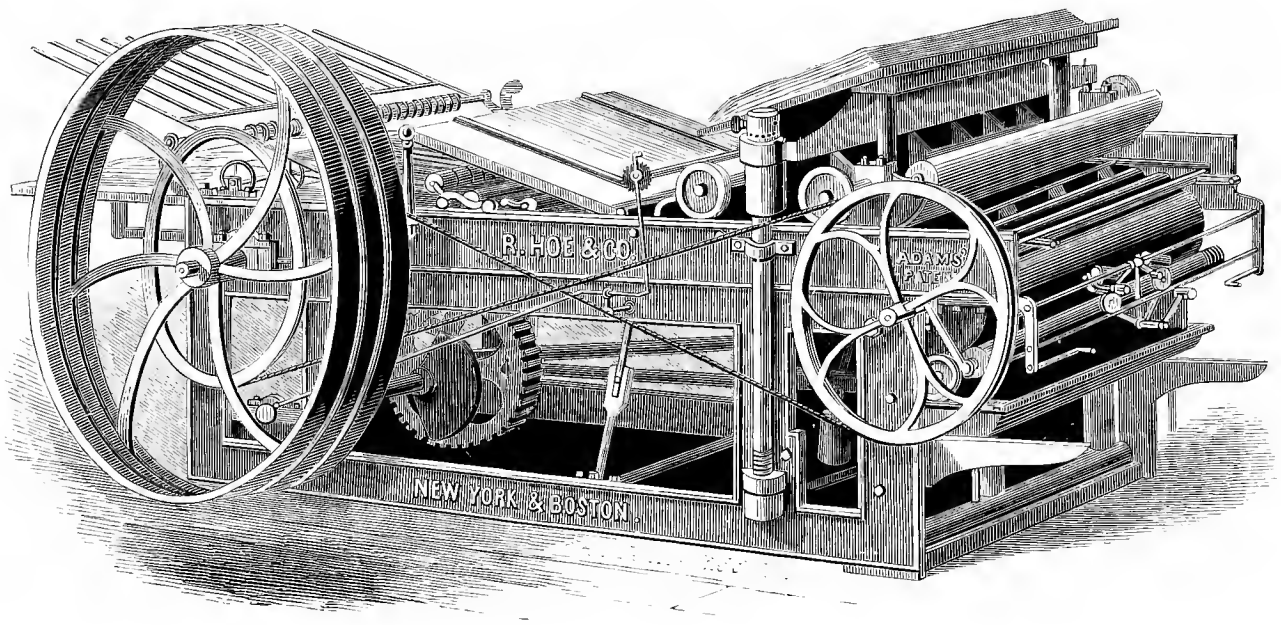
This press, at one operation, prints, numbers, and deposits in a trough in consecutive order. It will number up to 10,000, and the wheels can be set at 0 or at any required figures with great facility. It is set on a hard-wood table furnished with drawers, and in its general arrangement is similar to the Patent Table Card Press.

A Roller Mould, two sets of Roller Stocks, and three Chases are furnished with the press. Platen, 4½ × 6 inches.

Driving Pulley, Fast and Loose Pulleys, Counter-Shaft, Hangers, and two Cone Pulleys, for steam power, extra, $

Bed and Platen Printing Machine.

ADAMS' PATENT.



For the finest letter-press printing, particularly where accurate register is required, this machine is unsurpassed by any other power-press. It is made with two, four, or six inking rollers, according to the class of work to be done, and, when desired, the impression may be suspended without stopping the running gear, and the rollers passed again over the form. A self-changing tympan sheet is attached to the platen.

Within a few years various improvements have been made in the distribution, especially of the four and six-roller presses, by which its efficiency has been greatly increased, and much trouble spared the pressman, by the substitution of composition rollers in place of cloth rollers, and vibrating wooden cylinders for the inconvenient layers of small rollers.

A fountain for expensive colored work has been recently constructed in which the ink lies upon the knife in full view, so that very little is required to start the press. It is quickly cleaned and without waste of ink.

To the matter of *Pointing*, also, some attention has been given, and several attachments designed to meet acknowledged wants, have been patented. The first is an *adjustable point*, which may be set in much greater variety of positions than those ordinarily used. The second is an apparatus for *setting the points* without raising the tympan or stopping the press, and for holding them firmly in place; it is operated by thumb screws in the edge of the tympan. The third is a *self-pointer;* it consists of an arm swinging on a pivot at the farther edge of the tympan, and carrying several brushes or springs, which press down the sheet upon the points, thus sparing the feeder the fatigue and frequent ill results of leaning over a wide board. The fourth is similar in construction to the one just described, and is intended to *punch holes* for the folding machine points; any number being made in any part of the sheet.

The strength and solidity of these presses have been greatly augmented to adapt them to the heavy work now so common. A double medium, for example, weighs a ton more than formerly.

Our list of sizes on next page, it would seem, can not fail to meet every possible want.

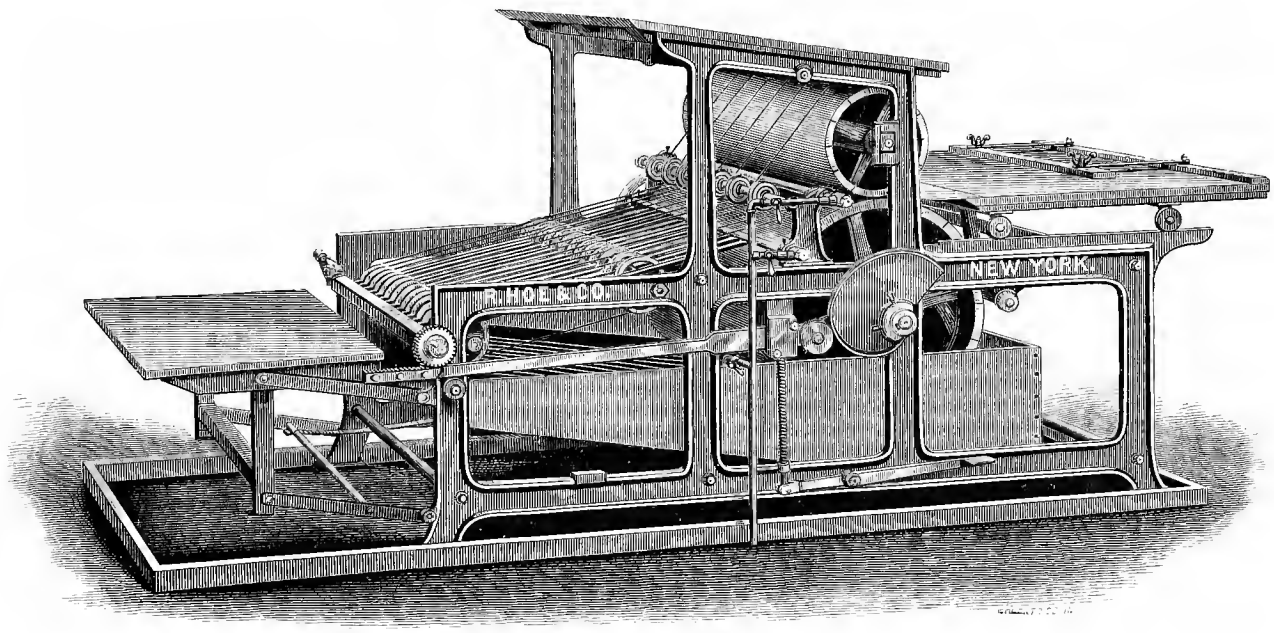
Dimensions of Bed and Platen Printing Machine.

No.	Size of Platen.	Rollers.	Size of Chase, outside.	Price.
1	14 × 18 inches.	2 Rollers.	16½ × 20½ inches.	$
2	19 × 23 ..	2 ..	21 × 25 ..	
3	" × " ..	4 ..	" × " ..	
4	19 × 25 ..	2 ..	21½ × 27½ ..	
5	" × " ..	4 ..	" × " ..	
6*	20 × 25 ..	2 ..	22½ × 30½ ..	
7*	" × " ..	4 ..	" × " ..	
8	22 × 29 ..	2 ..	25 × 33 ..	
9	" × " ..	4 ..	" × " ..	
10	" × " ..	6 ..	" × " ..	
11	24 × 29½ ..	2 ..	27 × 33½ ..	
12	" × " ..	4 ..	" × " ..	
13	" × " ..	6 ..	" × " ..	
14	23 × 34 ..	2 ..	26 × 38 ..	
15	" × " ..	4 ..	" × " ..	
16	25 × 37 ..	2 ..	28 × 41 ..	
17	" × " ..	4 ..	" × " ..	
18	25 × 39 ..	2 ..	28 × 43 ..	
19	" × " ..	4 ..	" × " ..	
20	" × " ..	6 ..	" × " ..	
21	26 × 40 ..	2 ..	28½ × 43½ ..	
22	" × " ..	4 ..	" × " ..	
23	" × " ..	6 ..	" × " ..	
24	27 × 40 ..	2 ..	29½ × 43½ ..	
25	" × " ..	4 ..	" × " ..	
26*	30 × 40 ..	2 ..	32½ × 43½ ..	
27*	" × " ..	4 ..	" × " ..	
28*	" × " ..	6 ..	" × " ..	
29*	27 × 41 ..	2 ..	29½ × 44½ ..	
30*	" × " ..	4 ..	" × " ..	
31*	" × " ..	6 ..	" × " ..	
32	26 × 43 ..	2 ..	28 × 26½ ..	
33	" × " ..	4 ..	" × " ..	
34	" × " ..	6 ..	" × " ..	
35	27 × 43 ..	2 ..	29½ × 47 ..	
36	" × " ..	4 ..	" × " ..	
37	" × " ..	6 ..	" × " ..	
38	29 × 43 ..	2 ..	32 × 47 ..	
39	" × " ..	4 ..	" × " ..	
40	" × " ..	6 ..	" × " ..	
41*	31 × 43 ..	2 ..	34 × 47 ..	
42*	" × " ..	4 ..	" × " ..	
43*	" × " ..	6 ..	" × " ..	
44*	34 × 44 ..	2 ..	36½ × 47½ ..	
45*	" × " ..	4 ..	" × " ..	
46*	" × " ..	6 ..	" × " ..	
47*	31 × 45 ..	2 ..	33½ × 49 ..	
48*	" × " ..	4 ..	" × " ..	
49*	" × " ..	6 ..	" × " ..	
50*	32 × 46 ..	2 ..	34½ × 52 ..	
51*	" × " ..	4 ..	" × " ..	
52*	34 × 48½ ..	2 ..	36 × 53½ ..	
53*	" × " ..	4 ..	" × " ..	
54*	" × " ..	6 ..	" × " ..	

THE price includes Cone Fly-Wheel, Counter Cone, Tight and Loose Pulleys, Counter-Shaft, Hangers, Driving Pulley for Main Shaft, two Friskets, six Roller Cores, if Two-Roller; twelve Roller Cores, if Four-Roller; and eighteen Roller Cores, if Six-Roller; four sets of Nippers, of three each. For any articles in above list not required, a deduction will be made.

The Numbers marked * are extra heavy.

Patent Paper-Wetting Machine.



THE bundle of paper is placed on the bank, and fed in quires, either open or folded, to guides on the feed table. At the proper time the table advances and enters the paper between two cylinders covered with felt, the lower one of which runs in a trough of water. As the paper issues from these cylinders, it passes between a top and bottom sprinkler, by which additional water can be put on, and the quantity can be regulated at pleasure. The paper is then conveyed by cords to a sheet-flyer, which lays it on a table suspended on springs. These springs are readily adjusted to suit the weight of the paper, so that the table falls as the weight increases, and thus keeps the top of the pile always at the same height.

DIMENSIONS AND PRICES.

No. 1 will wet paper 24 × 36 inches, ... $

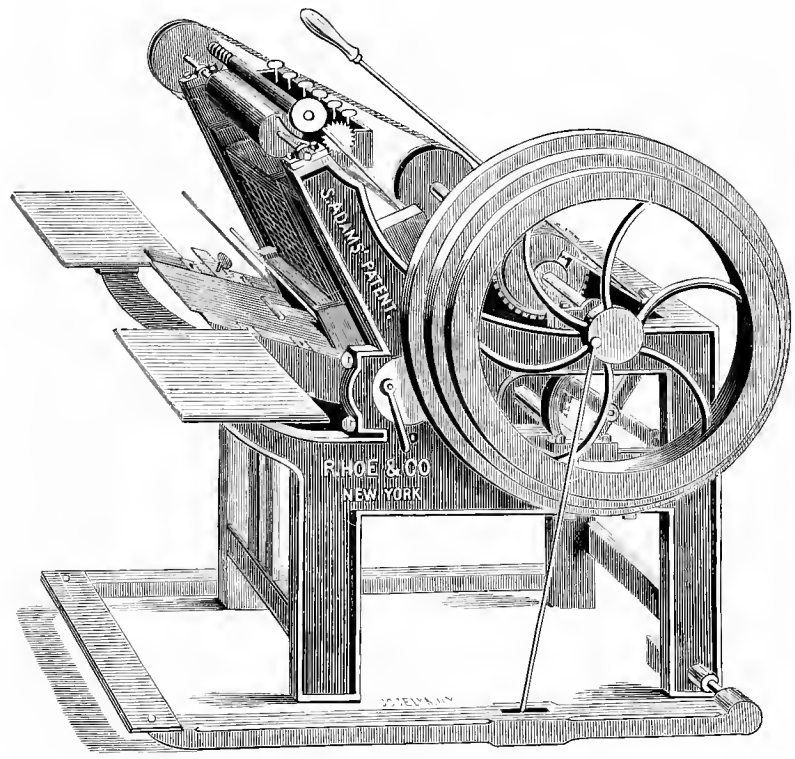
No. 2 " " 32 × 48 " . . . . . .

No. 3 " " 40 × 60 " . . . . . .

The price includes Counter-Shaft, Hangers, and Pulleys.

Bed and Platen Job Printing Press.

(ADAMS' PATENT.)

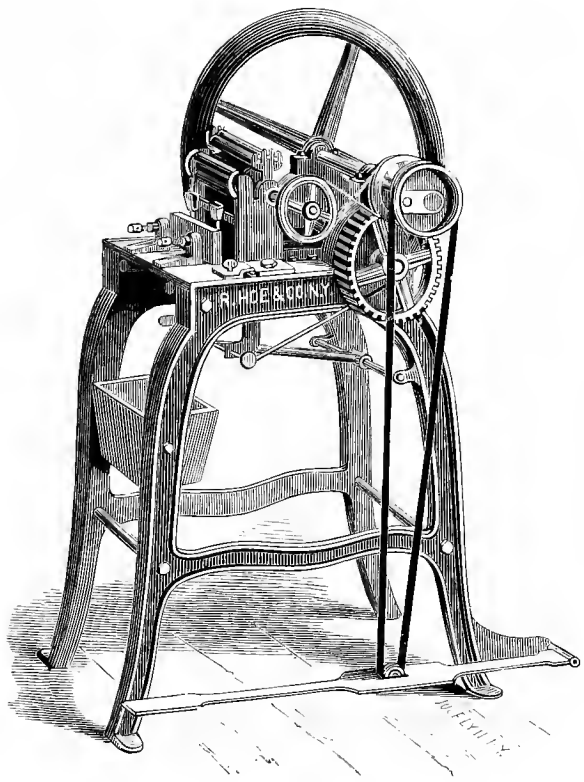


THIS press is built in the most substantial manner, and has no superior for the various kinds of Job and Card printing. It is worked by a treadle, but the fly-wheel is adapted to receive a belt, so that steam power may be employed if desired; and it is arranged so that the impression can be thrown off in an instant without stopping.

The work is placed to the adjustable guides on the platen, which lies conveniently inclined, and is lifted up to the bed by means of a cam on the main shaft. The distribution is very good; the ink is taken from the fountain by a ducter roller to a metal cylinder, on which a vibrating roller is constantly traversing. The inking rollers are held in a sliding frame, and their pressure on the type is regulated by set screws.

DIMENSIONS AND PRICES.

No. 1, Bed, 8 × 10½ inches, . .	. .	Platen, 5 × 8 inches, ...	. . $
No. 2, " 11 × 14 " .	. .	" 9 × 12 "	



Patent Treadle Card Press.

THIS machine may be worked either by crank or treadle, and will print from 1000 to 1500 cards per hour, in the best manner. The bed is vertical, and the impression is given by a cam which brings it forward against the platen.

A Mould, two sets of Roller Stocks, and three Chases are furnished with each press.

Size of Chase inside, $5 \times 6\frac{1}{4}$ inches.

Driving Pulley, Fast and Loose Pulleys, Counter-Shaft, Hangers, and two Cone Pulleys, for steam power, extra, $

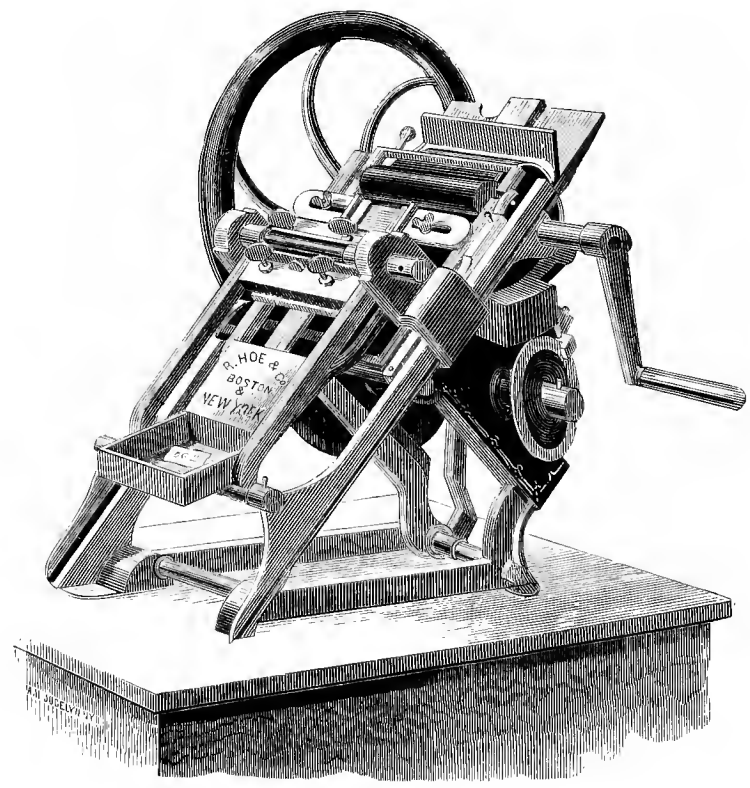
Patent Table Card Press.

IN this press the form is placed on an inclined bed, and receives ink from two rollers. The impression is given by a cam and may be regulated by platen screws. It has adjustable feed-guides, a large distributing cylinder, card-rack and receiver, and is well adapted for long service. The removal of a bar, easily effected, allows the platen and guides to be thrown back, uncovering the bed and rollers.

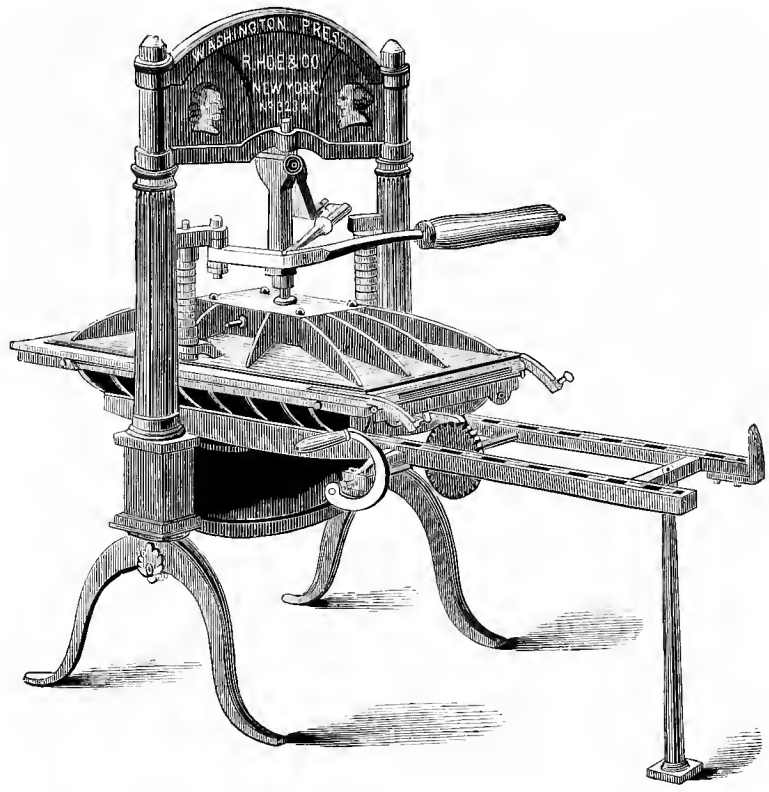
Speed, from 1000 to 2000 per hour. Platen, 4×5 inches.

A Roller Mould, two sets of Roller Stocks, and three Chases are furnished with the press.

Driving Pulley, Fast and Loose Pulleys, Counter-Shaft, Hangers, and two Cone Pulleys, for steam power, extra, $



Patent Washington Printing Press.



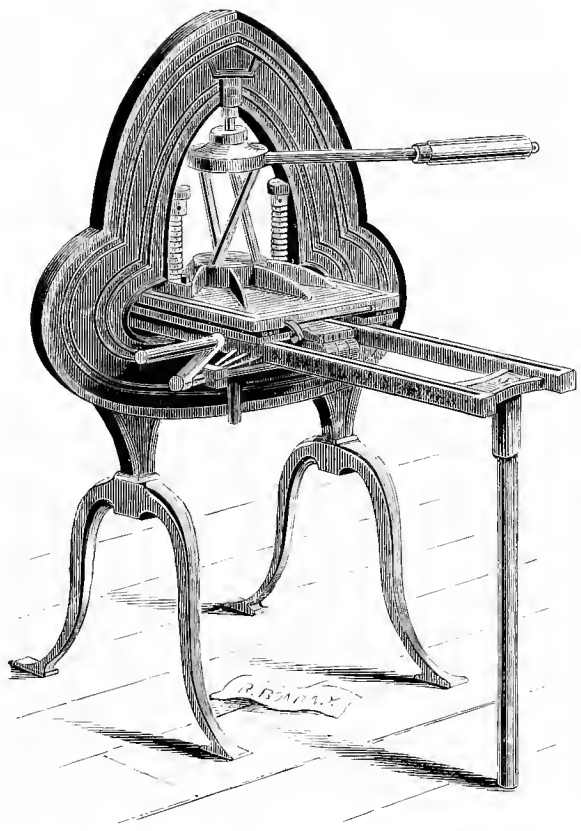
THE celebrity which our Patent Washington and Smith Hand-Presses have obtained during the last forty years, renders any remarks upon their superiority unnecessary. They are elegant in appearance, simple, quick, and powerful in operation, and combine every facility for the production of superior printing. Each press is tried at the manufactory, and warranted for one year.

DIMENSIONS AND PRICES.

	Bed.		Matter.		
No. 1,	17 × 21	inches,	13 × 17	inches,	$
No. 2,	20 × 25	"	15 × 20	"	
No. 3,	24 × 29	"	19 × 25	"	
No. 4,	26 × 34	"	21 × 29	"	
No. 5,	29 × 42	"	24 × 37	"	
No. 6,	32 × 47	"	27 × 42	"	
No. 7,	35 × 51	"	30 × 46	"	

Price includes two pairs of Points, one Screw Wrench and Brayer, one Slice, and one extra Frisket.

If the frame is made to be taken to pieces, $ extra.

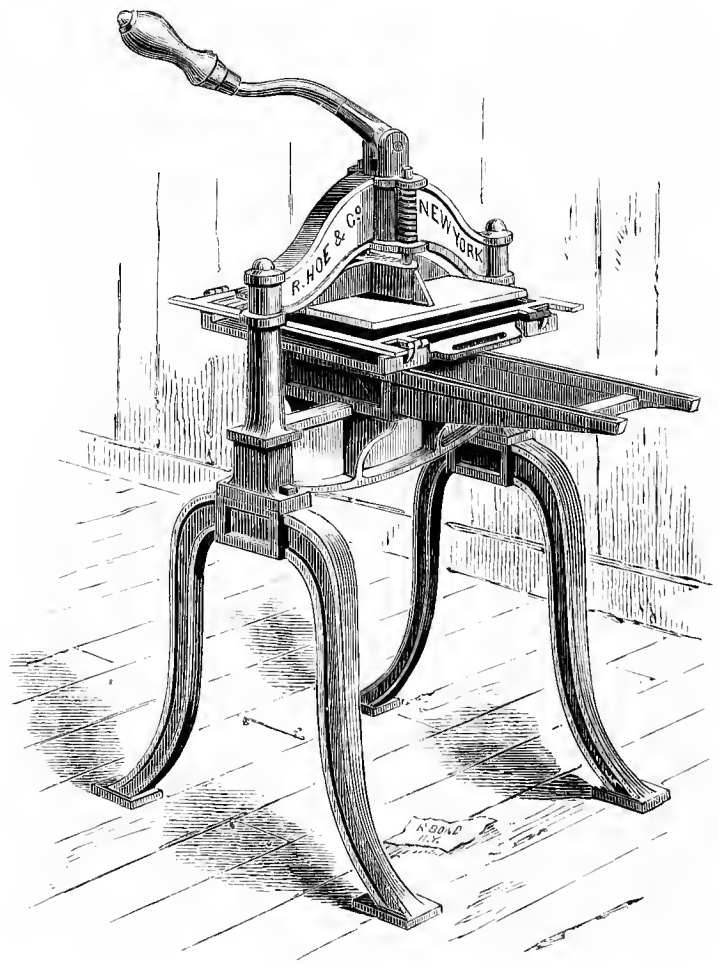


Stansbury Hand Press.

THIS is a simple but efficient little press, and those who have used it longest like it best.

DIMENSIONS AND PRICE.

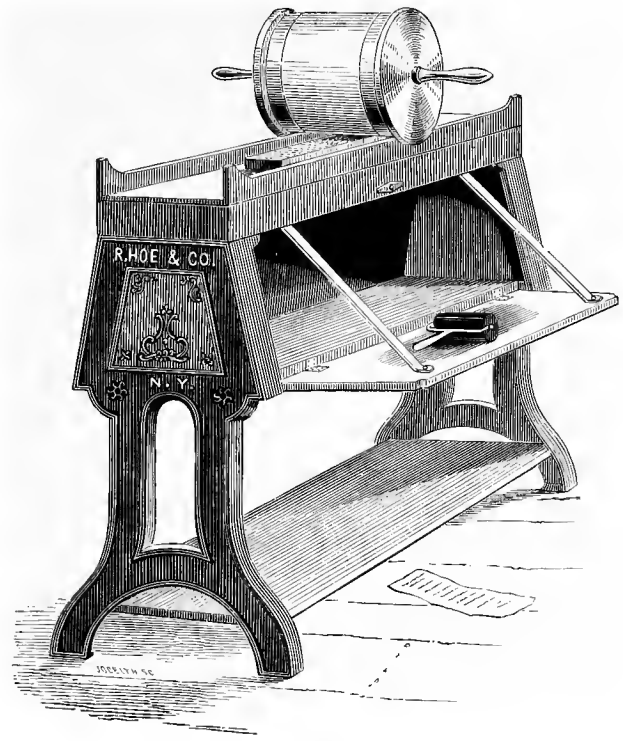
Platen, 12¾ × 16½ inches; Bed, 16 × 20 inches, $



New Hand-Lever Printing Press.

DIMENSIONS AND PRICES.

No. 1, . Platen, 7 × 10 inches, . . Bed, 10 × 13 inches, $
No. 2, . " 10 × 14 " " 14 × 17 "



Newspaper Proof Press.

THIS machine consists of a cast-iron bed and railway, supported by a cast-iron frame. The solid iron cylinder, with a weight sufficient to give the requisite impression.

When a proof is wanted, place the galley on the bed, ink the matter, lay on the slip of paper, and roll the cylinder to the other end of the railway.

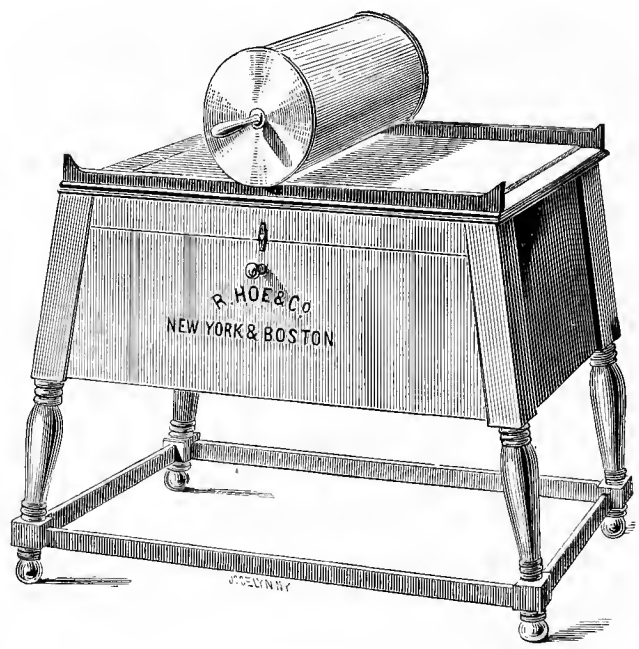
Size of Bed, 9½ × 40 inches. $

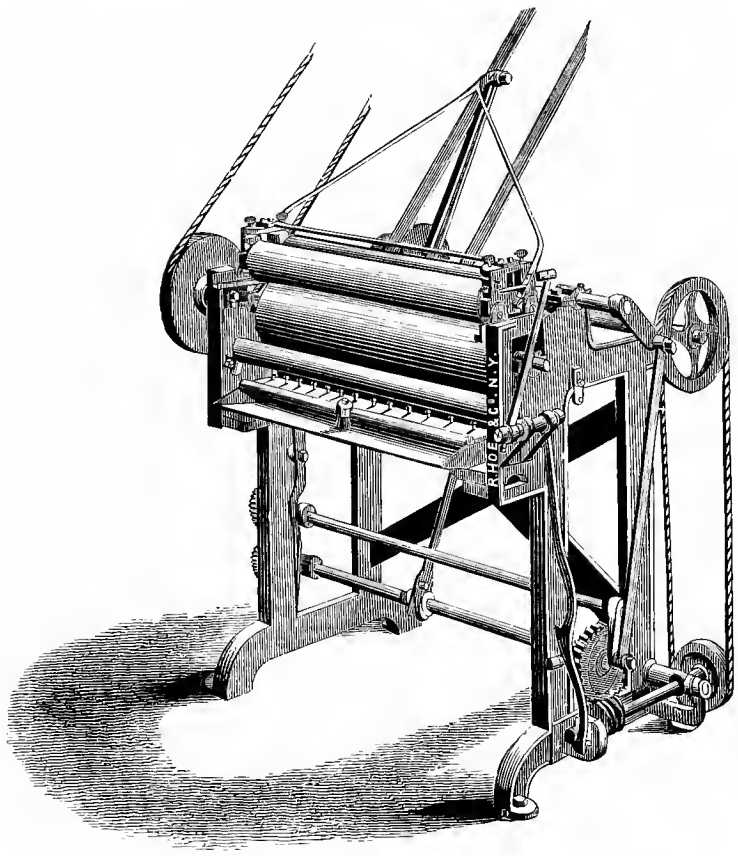
Job Proof Press.

THE bed is separate from the frame, so that, if desired, the latter may be dispensed with, and the bed laid on any ordinary counter. The frame is of hard wood, handsomely finished and varnished.

DIMENSIONS AND PRICES.

With bed 16 × 28 inches inside, with table, . $
" " 16 × 28 " " without " .
" " 9 × 27 " " with " . . .
" " 9 × 27 " " without " . . . .





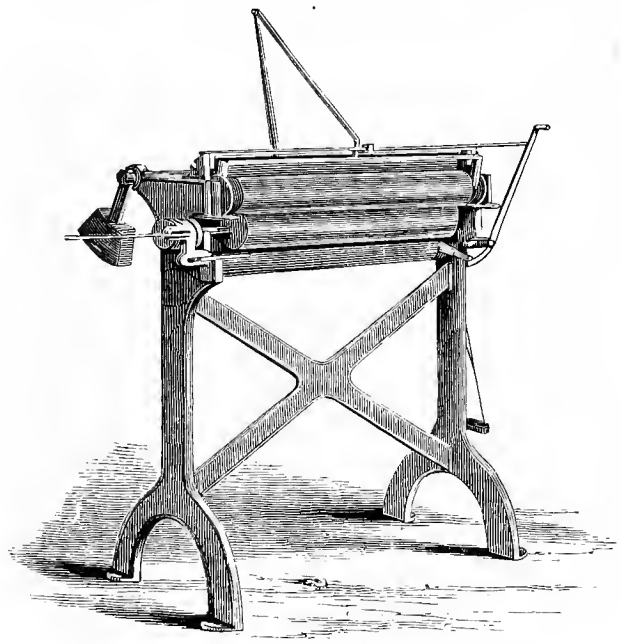
Patent Hand-Press Steam-Inking Machine.

THIS machine is to be attached to a hand-press, and driven by steam power. It has two rollers to pass over the form, one or more times to each impression, and is not at all liable to get out of order. The distribution is perfect, and uninterrupted by the operation of the press, and the strongest inks may be used.

DIMENSIONS AND PRICES.

	Price.	Extra Fountain.
No. 1,		
No. 2,		
No. 3,		
No. 4,		
No. 5,		
No. 6,		
No. 7,		

Patent Hand-Press Self-Inker.

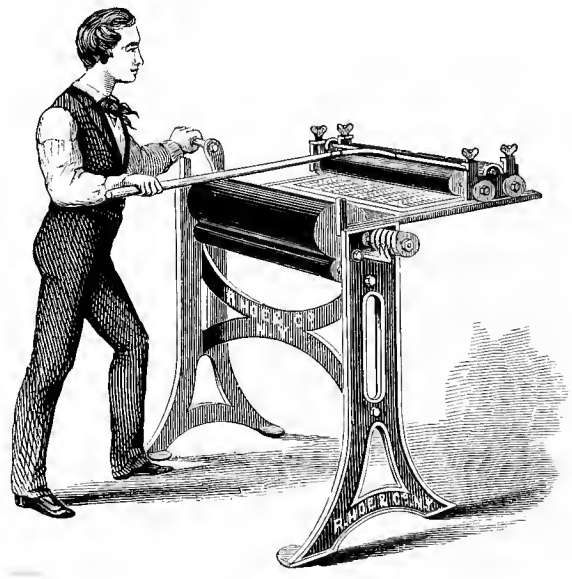


BY attaching this machine to a Washington or Smith Hand-Press the form is inked by the pulling of the impression. It is simple in its construction, regular in its movements, and easy to put up.

DIMENSIONS AND PRICES.

	$		$
No. 1,		No. 5,	
No. 2,		No. 6,	
No. 3,		No. 7,	
No. 4,			

Hand-Inker for Hand-Press.

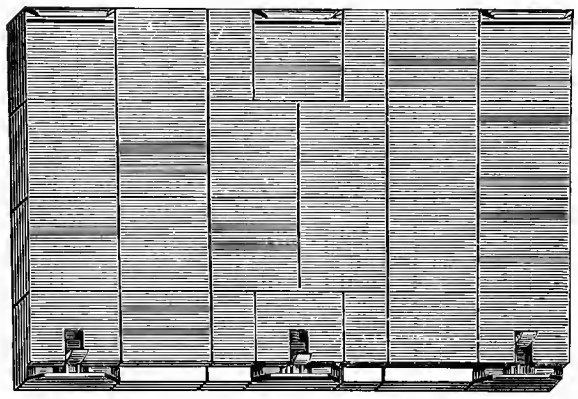


WITH Vibrating Cylinder, Railway and Carriage to work two ink rollers.

DIMENSIONS AND PRICES.

	$		$
No. 1,		No. 5,	
No. 2,		No. 6,	
No. 3,		No. 7,	
No. 4,			

Patent Sectional Block.



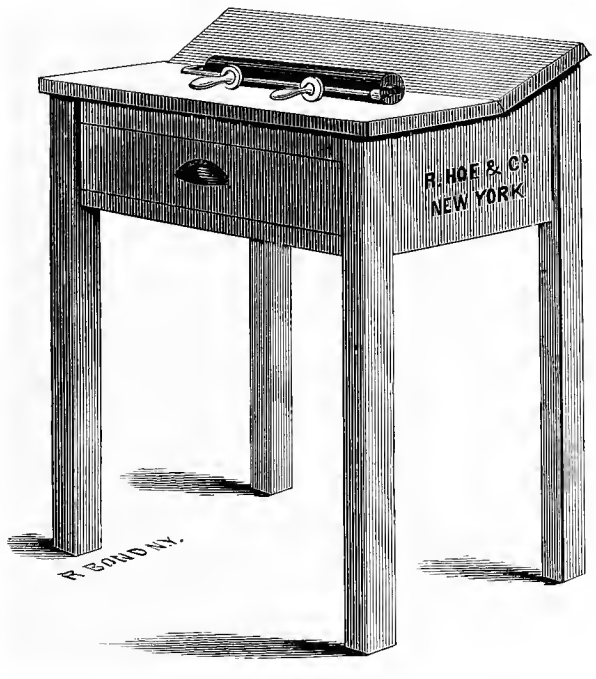
THIS consists of metal sections made up from pica ems. They are of several sizes, the smallest being one by four ems, and the largest eight ems square. Hooks are inserted in the largest sections, which may be arranged on any part of the block, and can be adapted for bed and platen or cylinder presswork. With an assortment of the sections or furniture, the printer may, by a proper combination, prepare a set of blocks to take on a page of any size.

For jobbing, the necessity of blocking cuts is almost entirely dispensed with, as a section to suit a cut of any size may be inserted in any type form.

PRICES.

Hooks,	$	each.
Catches,		"
Sections or Furniture,		per lb.

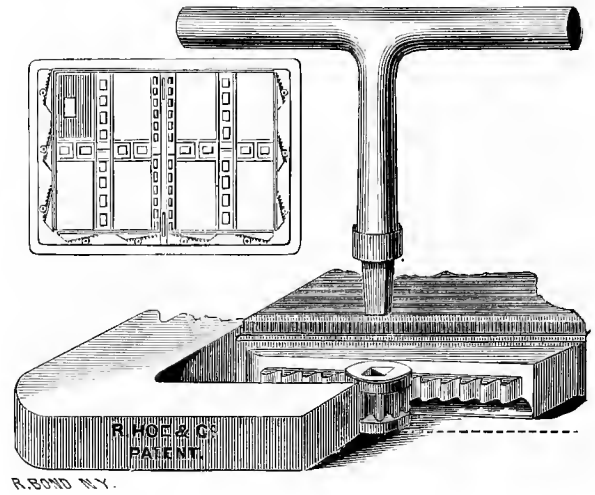
Ink Table, with Roller.



DIMENSIONS AND PRICES.

	$
Foolscap,	
Medium,	

Patent Mechanical Quoins.



THE quoins or pinions are worked by a key, and operate on the geared side-stick and foot-stick. The power gained is sufficient to lock up a form complete, and the friction will retain it secure for any length of time.

LIST OF QUOINS FOR FOOT PAGE.

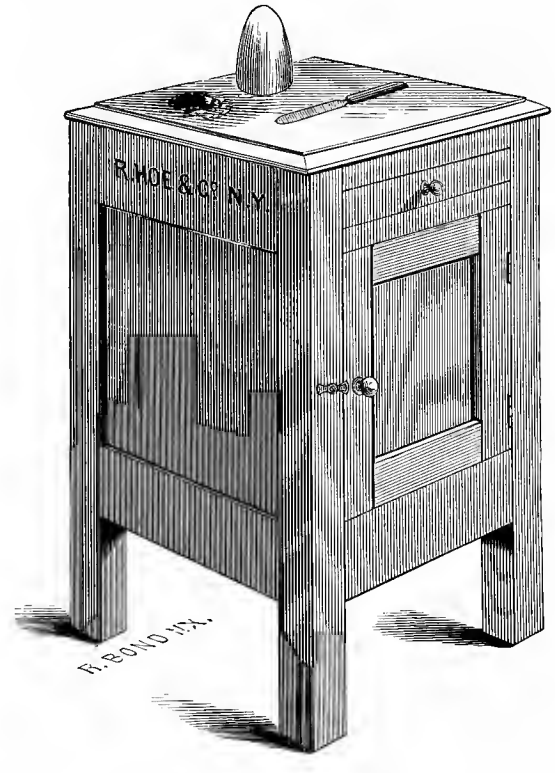
The Quoin complete,	4	inches long,	$	each.
" " "	4¾	" "		"
" " "	5½	" "		"

LIST OF QUOINS WITH DOUBLE MECHANICAL ARRANGEMENT FOR SIDES OF PAGES.

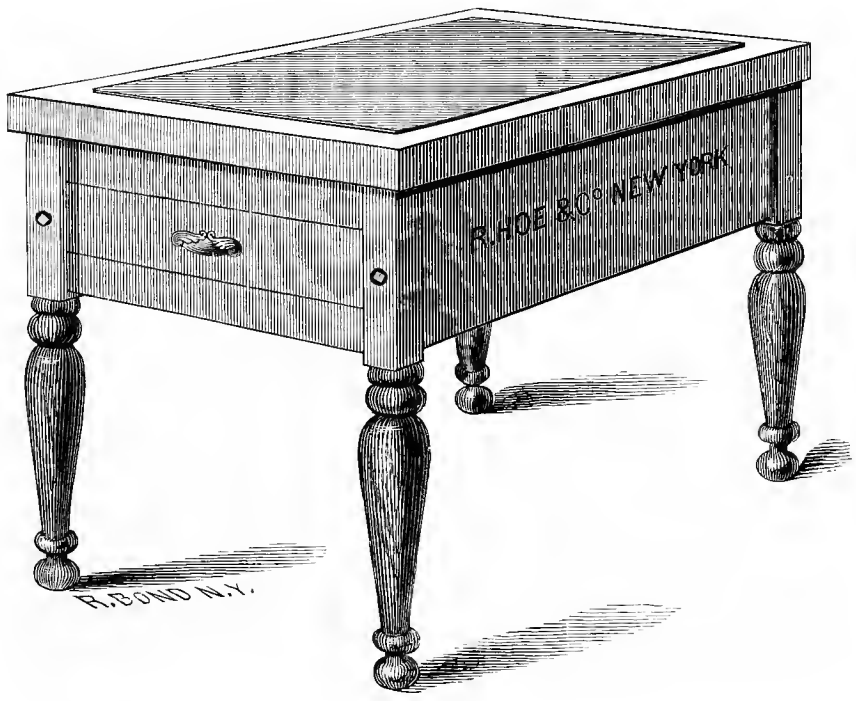
6⅓	in. to 10⅓	in., . . $	each.	20 in. to 21¾	in., . . . $	each.
10½	" 14¼	" . .	"	22 " 23½	" . . .	"
14½	" 18¼	" . .	"	24 " 25½	" . . .	"
18½	" 19¾	" . .	"	26 " 31½	" . . .	"

Pinions, cents each. Keys, cents each.

Ink Stone, Muller, and Table.



THIS table has a drawer also, and closet to hold proof-roller, ink, etc. The slab may be used as an inking table.



Imposing Stone.

ITALIAN MARBLE WITH TABLE AND DRAWERS.

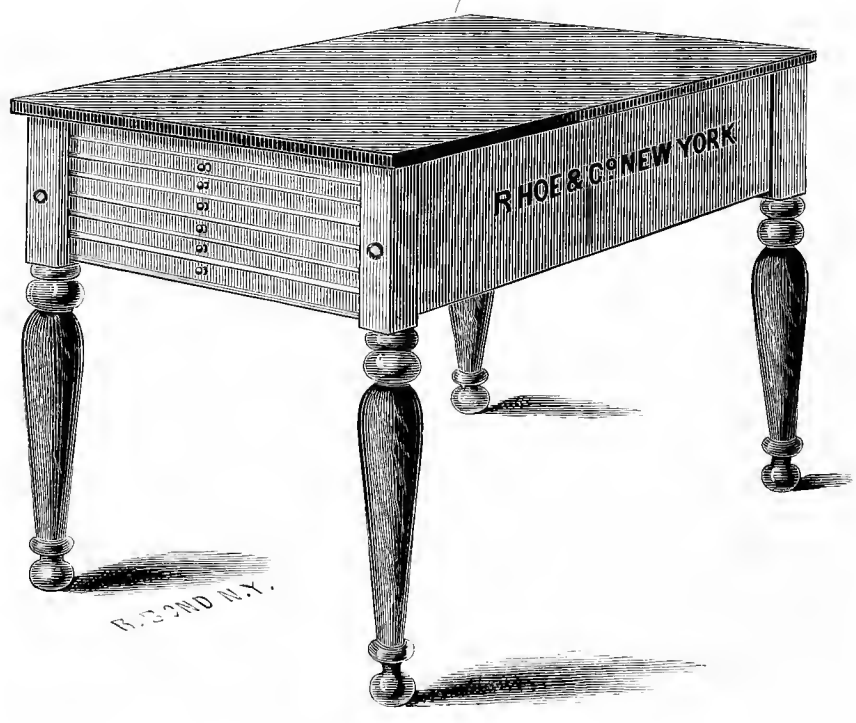
	Single.	Double.
No. 1,	16 × 20	16 × 40
No. 2,	18 × 23	18 × 46
No. 3.	22 × 28	22 × 56
No. 4,	24 × 32	24 × 64
No. 5,	27 × 40	27 × 80
No. 6.	30 × 45	30 × 90
No. 7.	33 × 49	33 × 98

Cast Iron Imposing Beds,

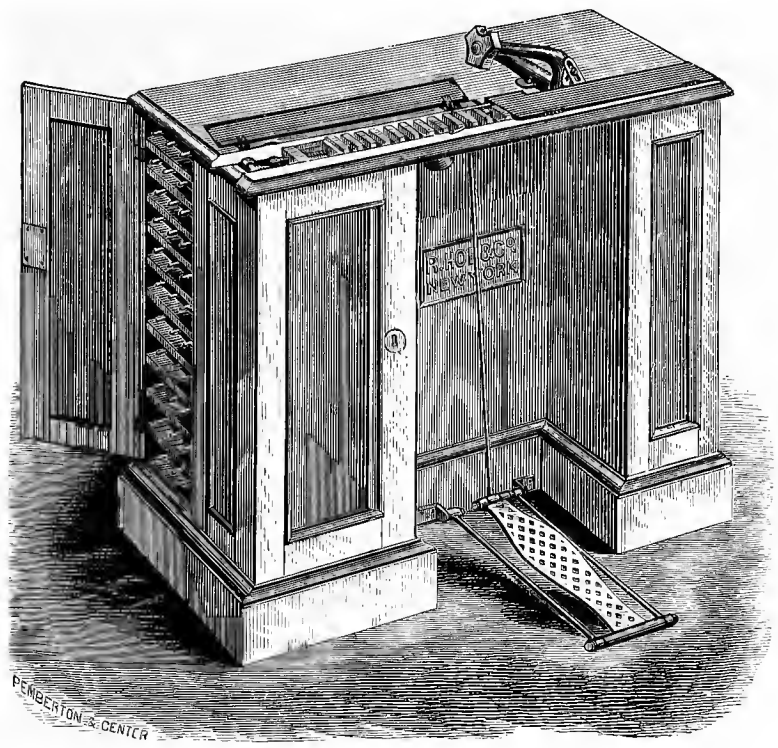
WITH TABLE AND DRAWERS.

	Single.	Double.
No. 1,	16 × 20	16 × 40
No. 2,	18 × 23	18 × 46
No. 3,	22 × 28	22 × 56
No. 4.	24 × 32	24 × 64
No. 5.	27 × 40	27 × 80
No. 6,	30 × 45	30 × 90
No. 7,	33 × 49	33 × 98

These tables can be taken to pieces, for convenience in packing and shipping.



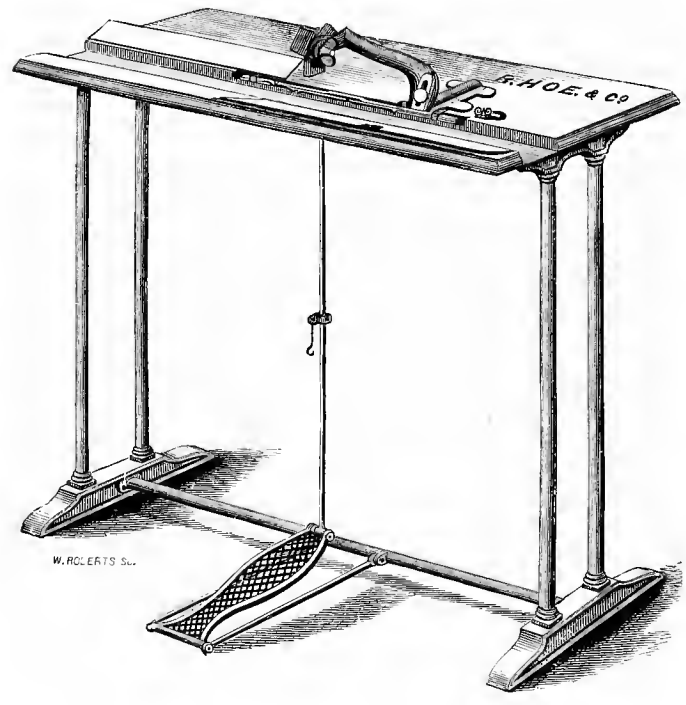
Patent Newspaper Addressing Machine.



THIS Machine prints with ink on papers or wrappers at the rate, including all necessary stoppages, of about Three Thousand an Hour; and may be run even at a much higher speed without getting out of order or injuring the type. The names are set up in long narrow galleys, holding fifty or seventy-five each, and, after inking with a hand roller, these are placed successively in the channel of the table, and are pushed along by the apparatus till each name in turn has come under the impression lever. The Machine indicates a change of post-office or any other point by the stroke of a bell, and by an easy adjustment prints addresses varying in length from one to three lines. The table contains closets, which hold Galleys, Proof Rollers, etc.; it may be made of black walnut, or of any other wood desired.

Price, with four Galleys, ... $
Extra Galleys, ...

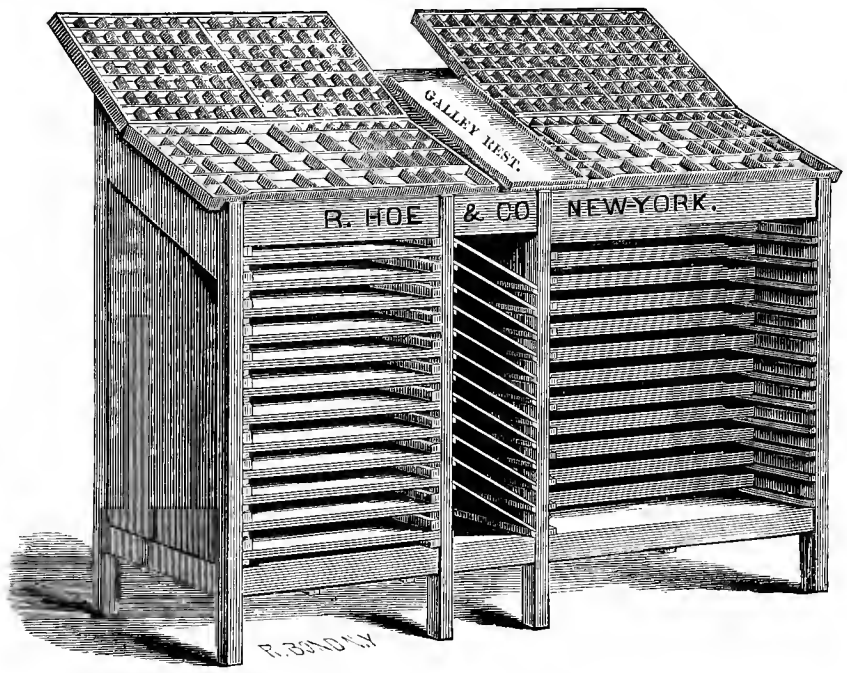
THIS is the same Machine described above, but with a simple stand of iron instead of a cabinet table.



Price, with four Galleys, ... $
Extra Galleys, ...

Patent Double Stand or Cabinet,

WITH GALLEY REST AND LETTER BOARDS.



THIS Cabinet is designed for a Job Office, and will hold eight pair of cases, full size; six pair of two-thirds cases, or twelve letter boards; and twelve double-column galleys.

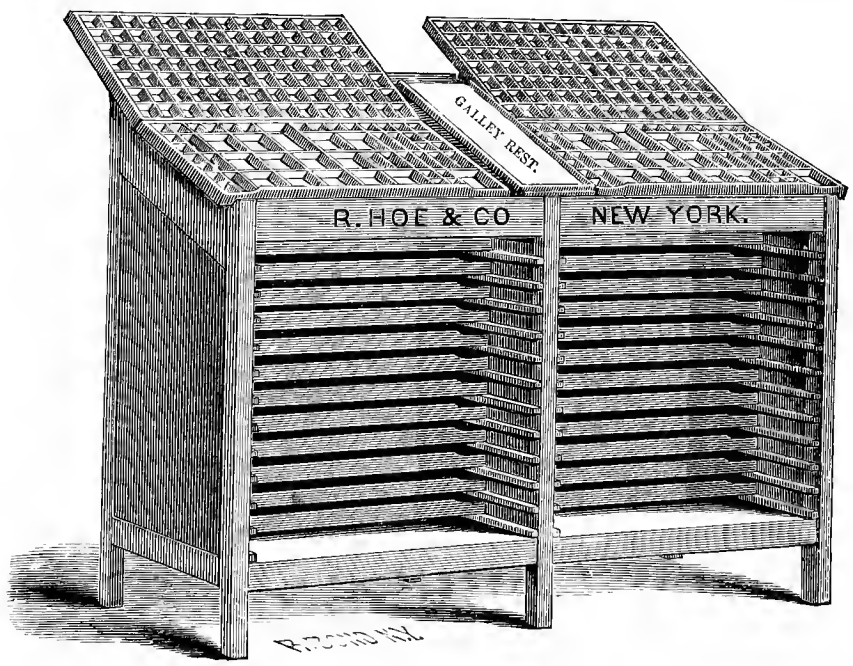
Price of Cabinet only, without cases or galleys, $

For prices of cases, galleys, etc., see list.

Boxing and Carting Extra.

Patent Double Stand or Cabinet,

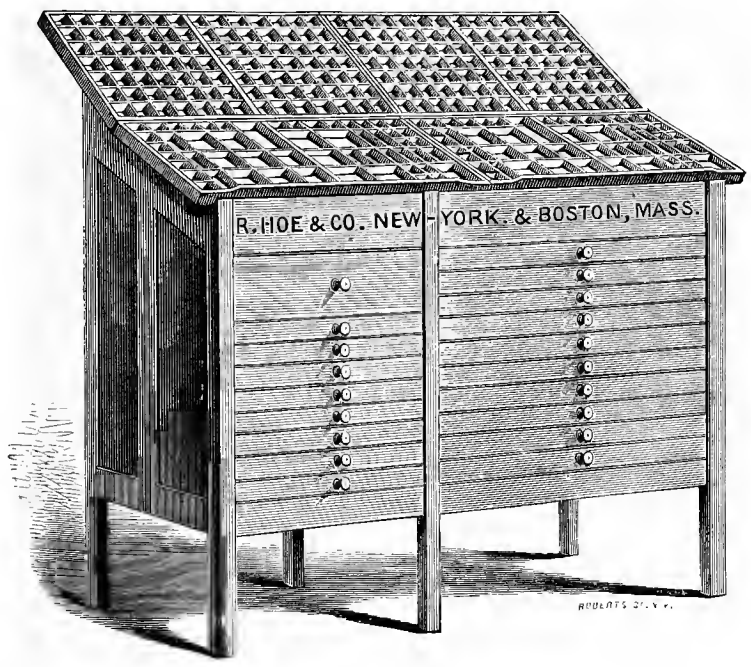
FOR TWO LENGTHS OF CASES WITH GALLEY REST.



THIS Cabinet is also designed for Job Offices. It holds thirty cases, and has a rest for galleys, which enables the compositor to have the free use of cases. Price, stained to imitate walnut, $ Boxing and Carting Extra.

Twenty-two Case Cabinet,

WITH DRAWER.

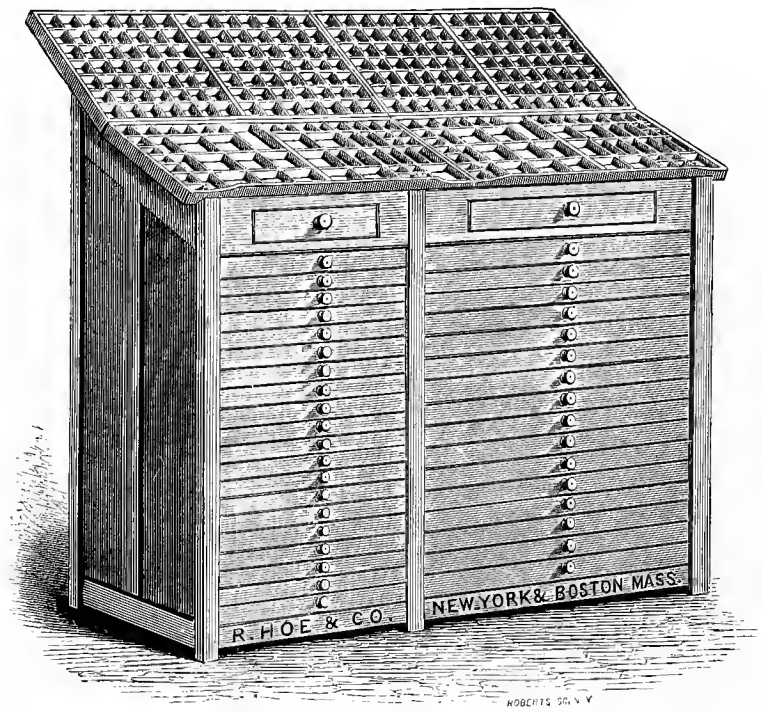


THIS Cabinet holds two pairs, six job, and four triple cases of full size, and four pairs of two-third size.

Price in black walnut, . . $
" imitation black walnut, .

Boxing and Carting Extra.

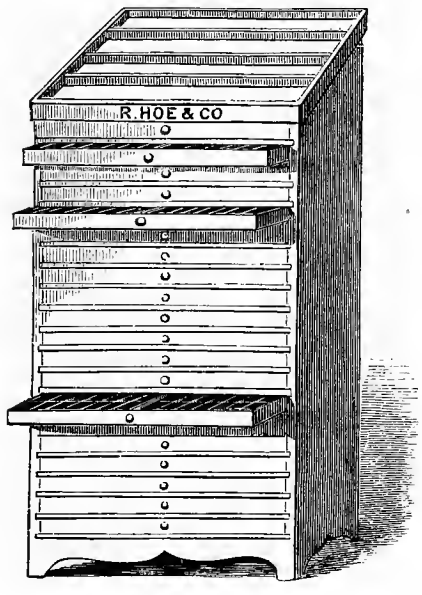
Forty Case Cabinet.



THIS Cabinet is of two kinds; the first holds two pairs of cases, sixteen combination cases (which are regular lower case with two additional rows of boxes for capitals at the back) and twenty three-quarter job cases. The second holds five full size pairs, six job and four blank cases for wood type, and twenty three-quarter job cases.

Price in black walnut . . . $
" imitation black walnut, . .

Boxing and Carting Extra.

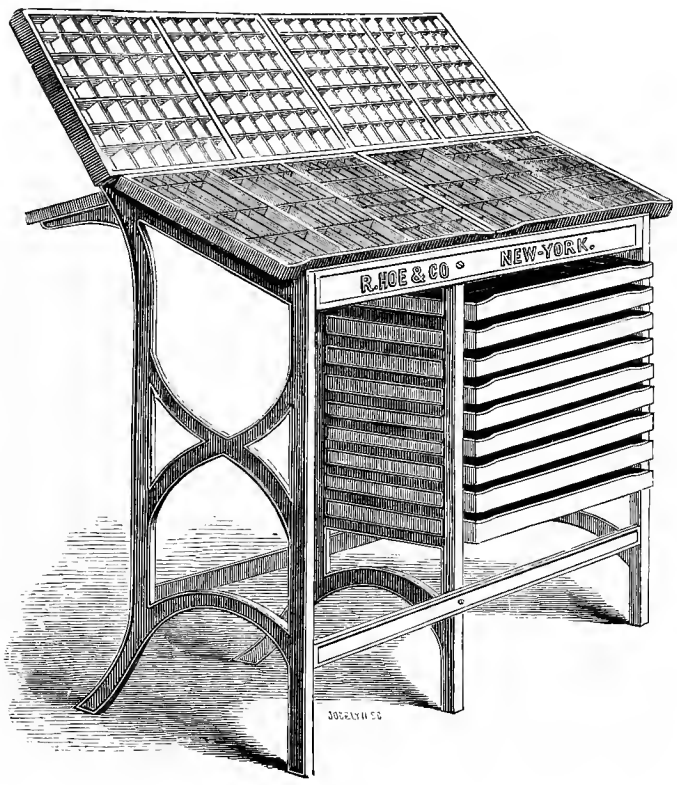


Regular Cabinet.

Price with 10 pairs full size cases. . . . . $
" " 10 " two-thirds size cases, ...
" " 8 " " " " " . . . . .
" " 6 " " " " " . . . . .
" " 15 half cases, ...
" " 10 " " . . . . .
" " 5 " " . . . . .

Other sizes made to order. If ordered of black walnut, $5 extra. each Cabinet.

Boxing and Shipping Extra.



Cast-Iron Case Stands.

THESE are light, handsome and strong; they can be taken to pieces as readily as wooden ones, and are more durable.

Double, with racks, . . $
Double, without racks. .
Single, . . .

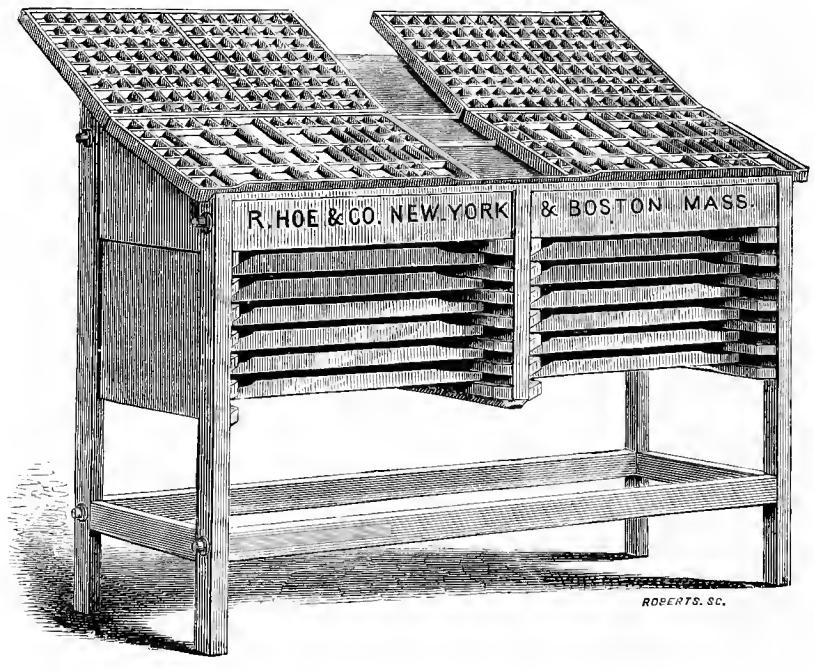
Boxing and Shipping Extra.

Improved Wood Case Stand.

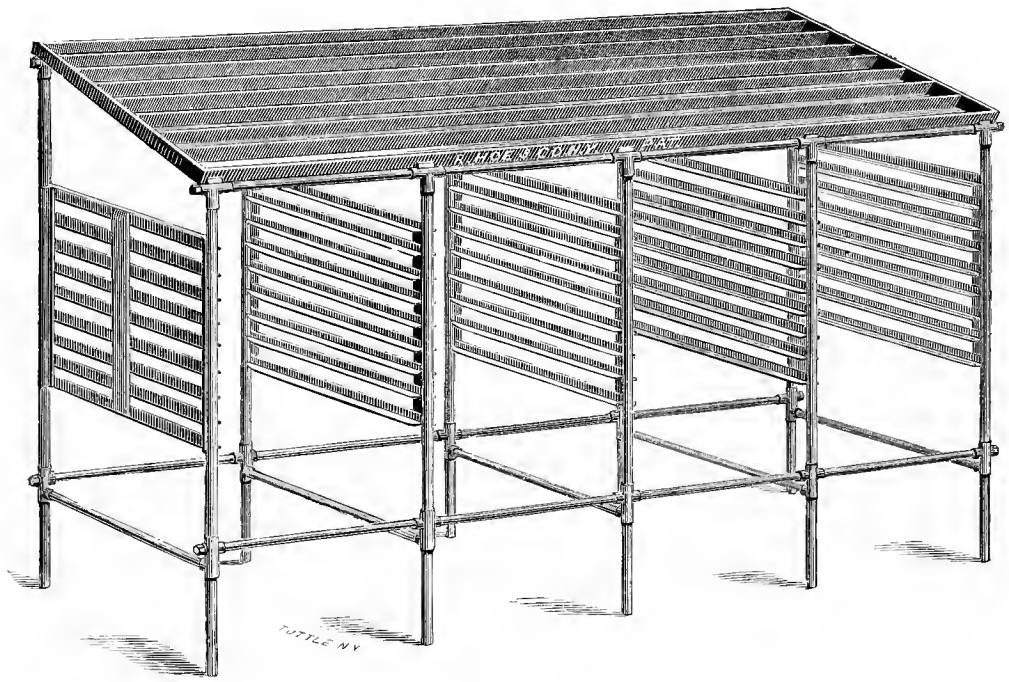
THIS is intended for newspaper offices. It is exceedingly neat and compact, and will accommodate a greater number of cases than the ordinary kind.

Price without cases, . . $
" with 8 pair cases, . .
" " 13 " . .

Boxing and Shipping Extra.

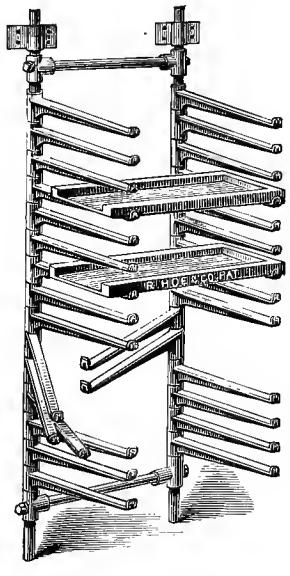


Patent Wrought Iron Stands.

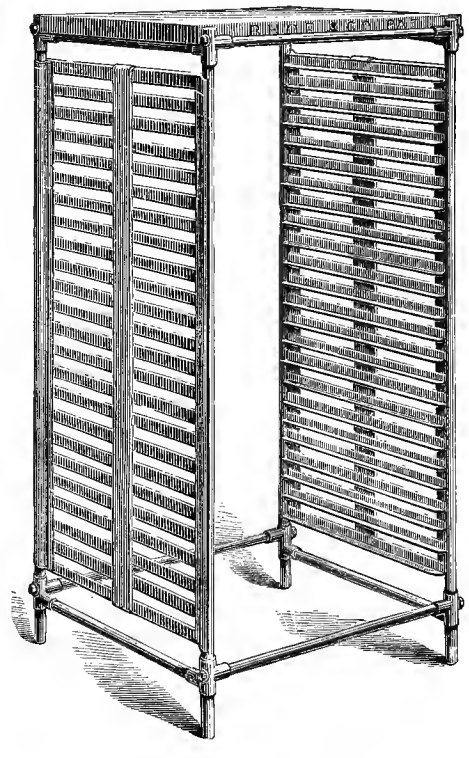


STANDING GALLEY WITH RACKS.

The Stands shown in the several cuts on this and the following page are an entirely new article. They are very light and strong, and in appearance a great improvement over the old-fashioned stand. They can be put together in almost any conceivable shape, and as so much wood is dispensed with in their use, they are quite indispensable.

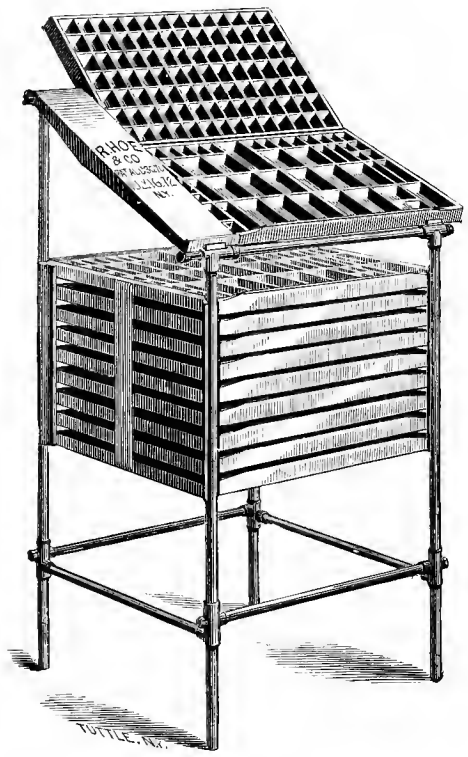


GALLEY RACK.



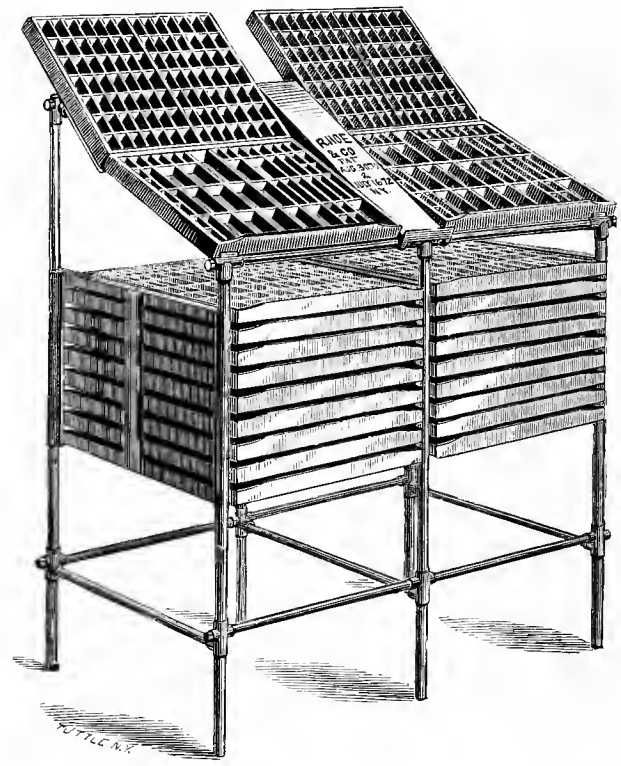
CASE RACK.

Patent Wrought Iron Stands.



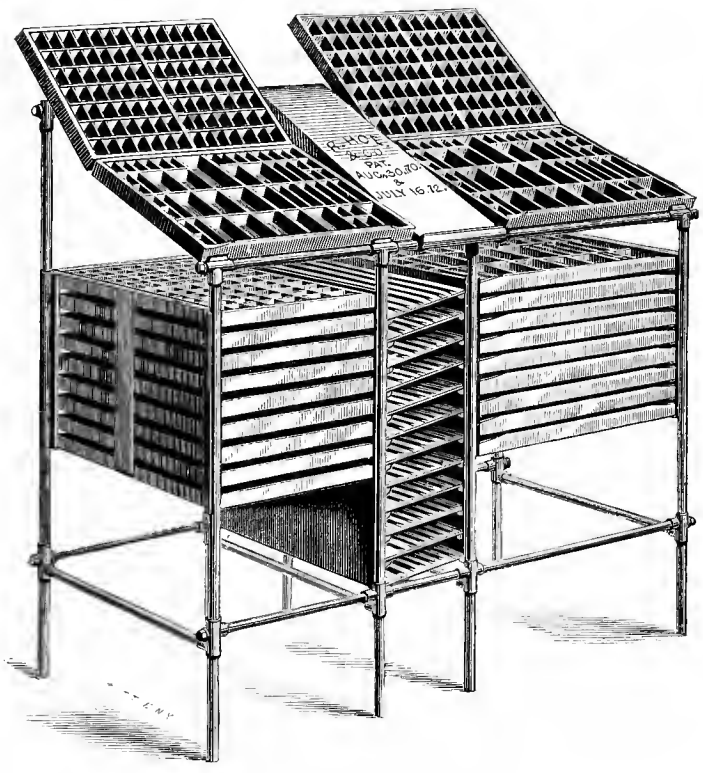
SINGLE STAND

WITH RACKS AND GALLEY REST.



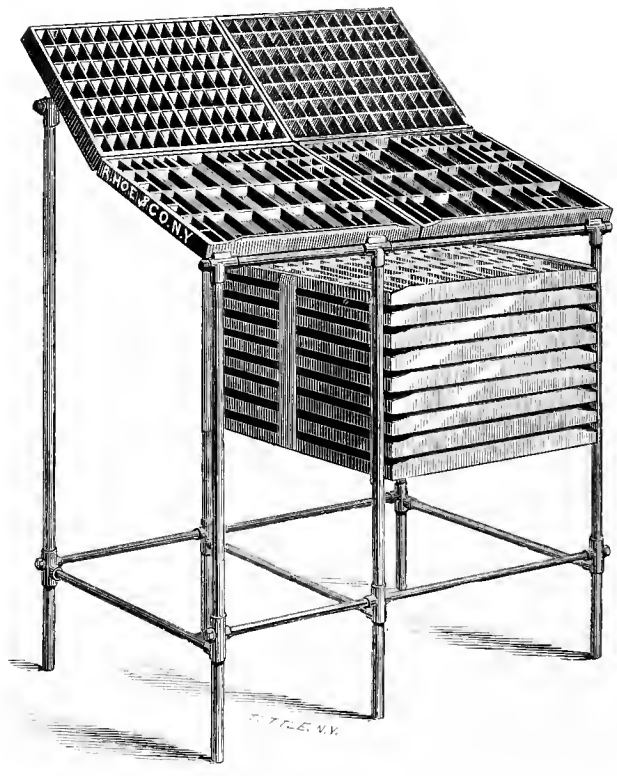
DOUBLE STAND

WITH RACKS AND GALLEY REST.



DOUBLE STAND

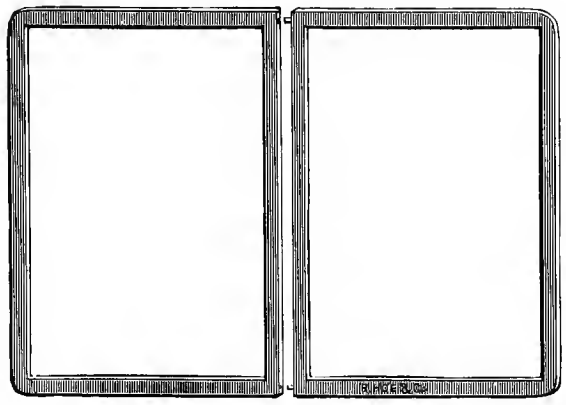
WITH GALLEY REST AND GALLEY RACK.



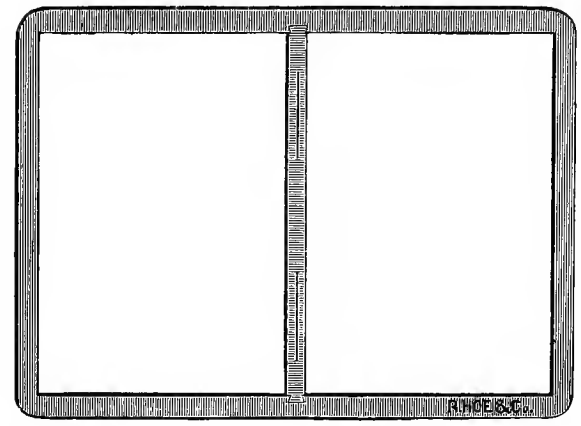
DOUBLE STAND

WITH RACKS.

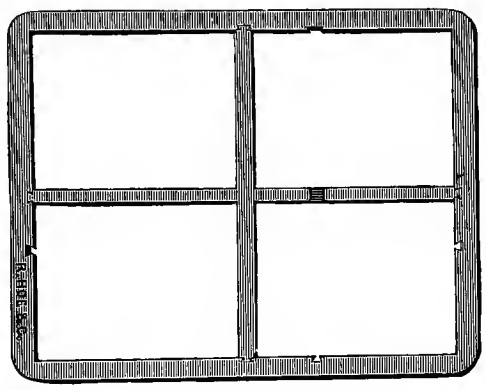
Two Half Chases.



News Chase.

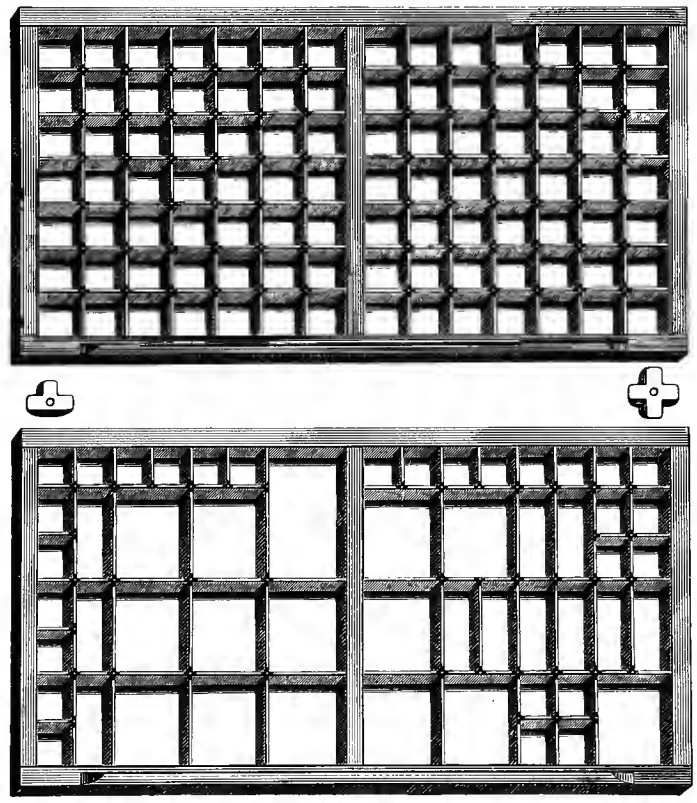


Book or Shifting Bar Chase.



In ordering Chases, give the outside dimensions as accurately as possible, and state what kind of Chase is wanted.

Upper and Lower Case, with Patent Clasp.



This cut represents our regular Upper and Lower Case. We make also Job, Tripple, Rule, Music, and Greek ; and to order any plan wanted. Our cases are all made with the patent clasp or fastening, the object of which is to secure the partition at the corners, and thus preventing that loss by breakage which in the ordinary case is constantly occurring.

The clasp referred to is shown in the cut.

Plain and Ornamental Brass Rules.

No.	PER FOOT.	Cts.
1		
2		
31		
3		
32		
33		
5		
34		
6		
35		
7		
36		
37		
47		
48		
8		
9		
49		
29		
23		
30		
50		
51		
52		
53		
24		
10		
11		

No.	PER FOOT.	Cts.
12		
13		
14		
54		
25		
55		
56		
38		
39		
40		
41		
42		
43		
44		
45		
46		
27		
28		
63		
99		
26		
15		
16		
57		
58		
59		
22		
60		

No.	PER FOOT.	Cts.
61		
62		
17		
18		
64		
20		
65		
19		
71		
72		
73		
74		
75		
76		
77		
78		
66		
67		
68		
69		
21		
70		
102		
101		
100		
79		
80		
81		
82		
83		
84		

Plain and Ornamental Brass Rules.

No.	PER FOOT.	Cts.
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
4		
103		
104		
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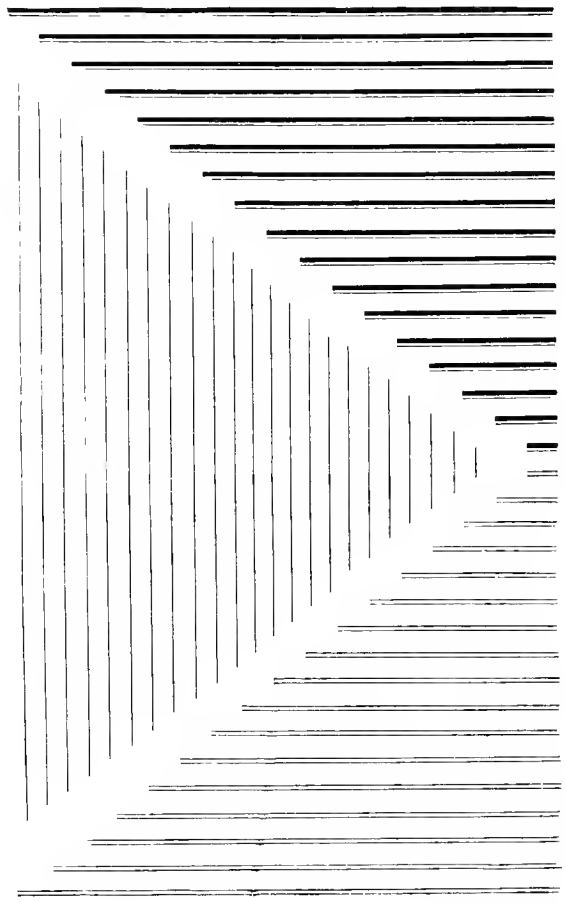
114		
115		
116		
117		
118		
119		
120		
121		
122		
123		
124		

Plain and Ornamental Brass Dashes.

No.	Cts.	No.	Cts.	No.	Cts.
1		17		32	
2		18		33	
3		19		34	
4		20		35	
5		21		36	
6		22		37	
7		23		38	
8		24		39	
9		25		40	
10		26		41	
11		27		42	
12		28		43	
13		29		44	
14		30		45	
15		31		46	
16					

Labor-Saving Rule.



Composed of 12 Pieces.

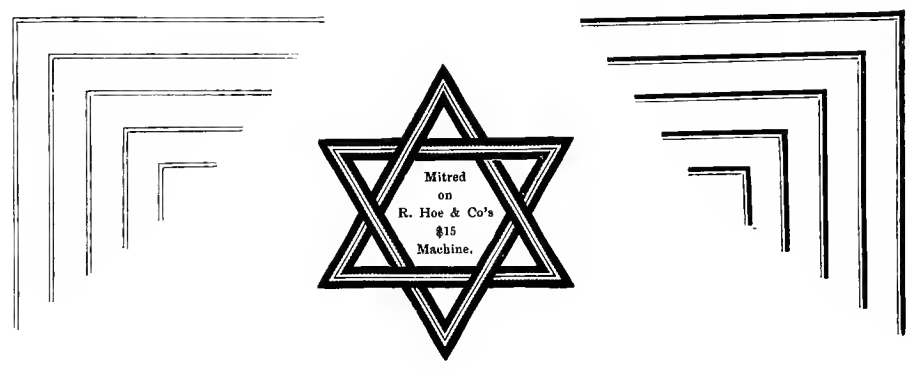
Composed of 10 Pieces.

Composed of 12 Pieces.

Composed of 10 Pieces.

Composed of 12 Pieces.

Composed of 10 Pieces.



Labor-Saving Rule Case.

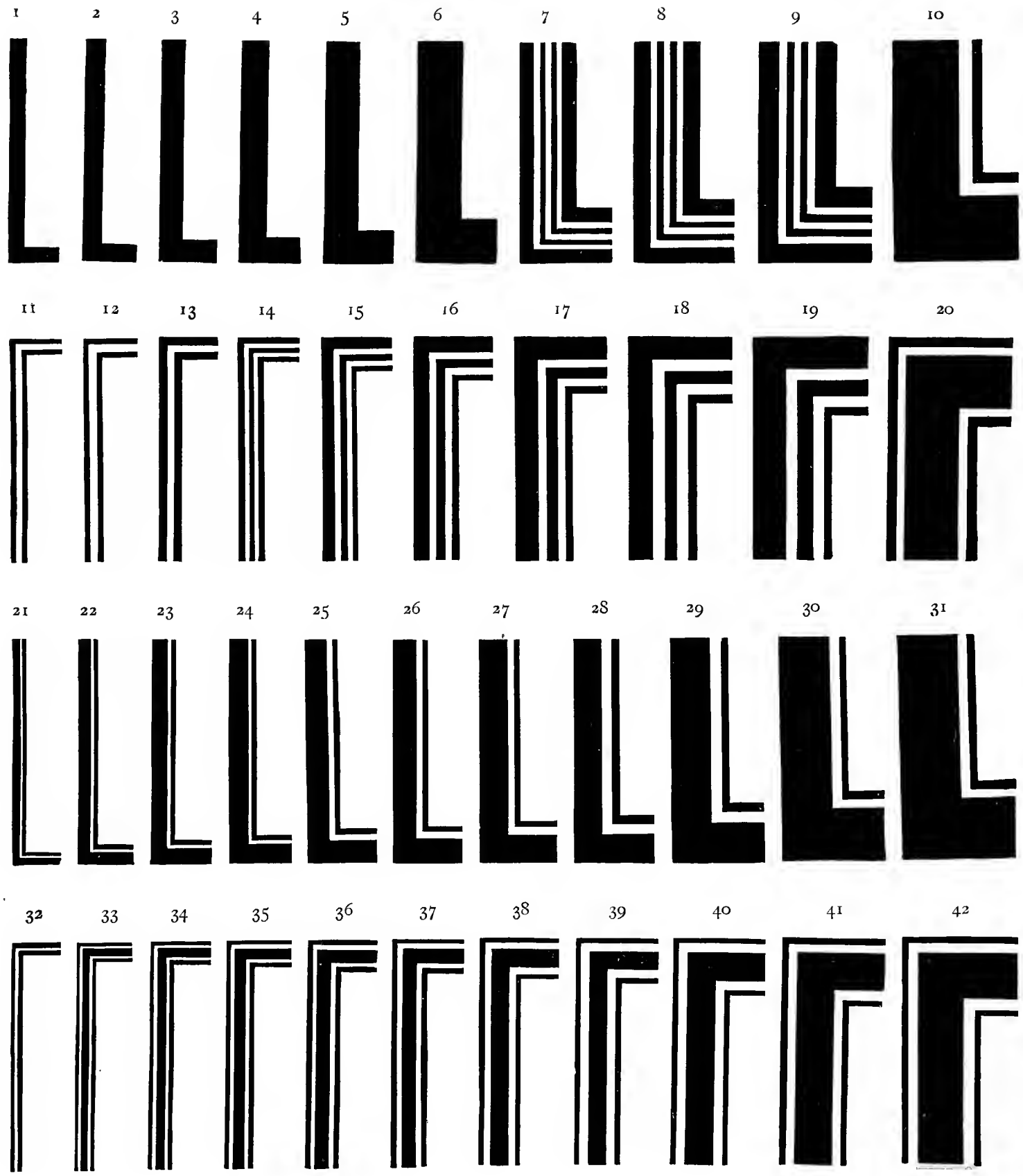
2	2½	3	5	5½	6	6	5½	5	3	2½	2	1	1½					
												2	2½					
												3	3½					
												4	4½					
36	35	34	33	32	31	30	29	28				5	5½	44	45	46	47	48	49	50
												6	6½					
19	20	21	22	23	24	25	26	27				7	7½					
												8	8½					
18	17	16	15	14	13	12	11	10				9	9½	43	42	41	40	39	38	37

THE careful printer will realize great advantages in the use of these Labor-Saving Rules. For tables of varying dimensions in book work they are excellently adapted, and the facility with which they may be put together in lengths differing only an em, recommends them for all purposes in which rapidity of execution is essential. The shorter pieces of the single rules, from 1 to 10, comprising 19 different sizes, will be found an economical substitute for the ordinary metal space-rules in the execution of mathematical or arithmetical works.

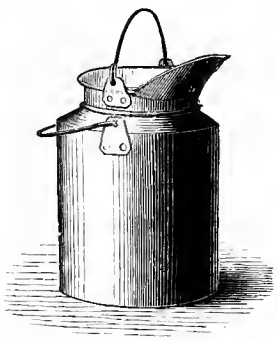
Sets of the Single Rule, assorted lengths, ... per lb., $
Sets of the Parallel or Double Rule, assorted lengths, ... "
Sets of Dotted Rule, assorted lengths, ... "
Additional pieces of any length up to ems, will be furnished to order.

Wood Rule.

MADE TO ANY PATTERN.



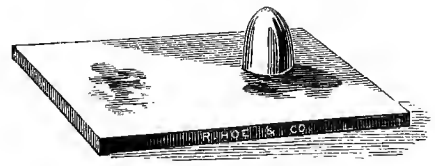
Composition Kettle.



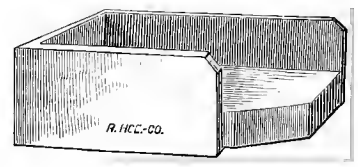
Ink Brayer.

Stereotype Block.

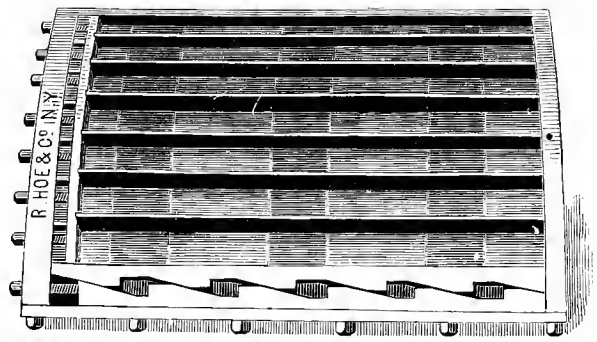
Iron Muller and Stone.



Ink Block.

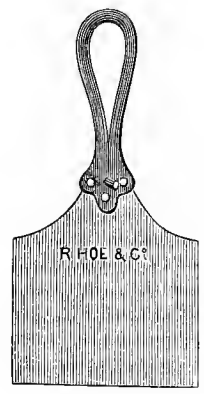


Bed (Turtle) of Rotary Printing Machine.

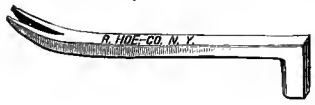


Inking Ball.

Ink Slice.



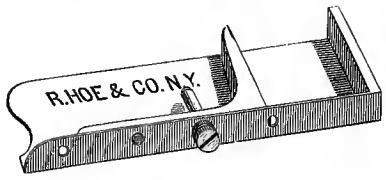
Sheep's Foot.



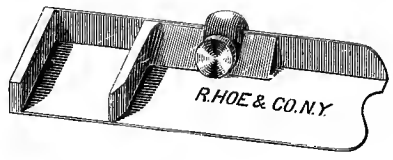
Ratchet.

Lye Brush.

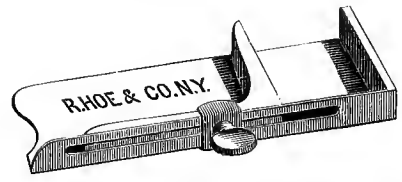
Composing Stick.



Composing Stick.

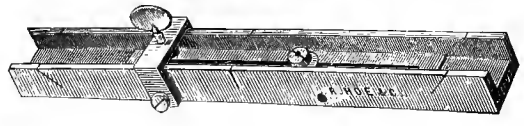


Composing Stick.



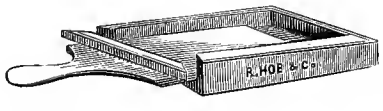
Screw Wrench.

Iron Mitre Box.



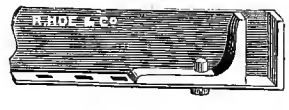
Lead Cutter.

Slice Galley.

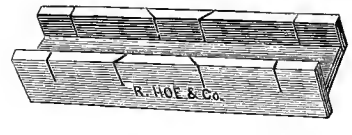


Iron Shooting Stick.

Composing Stick.



Wood Mitre Box.

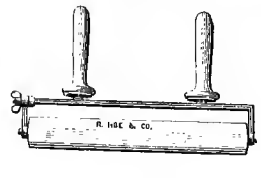


Planer.

Proof Roller.

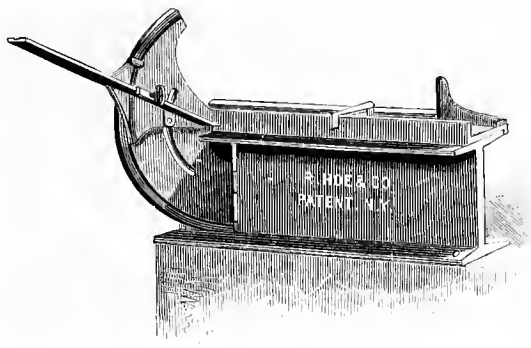
Iron Bound Mallet.

Job Roller.



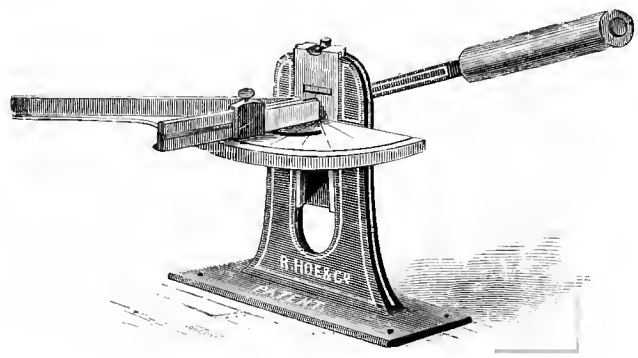
Proof Brush.

Patent Mitering Machine.



Price, $

Patent Upright Mitering Machine.

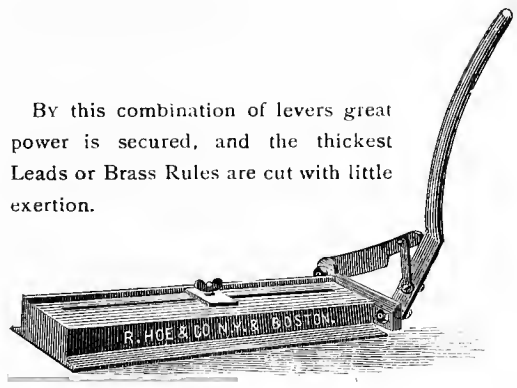


Price, $

THESE machines will mitre Brass or Metal Rule of any thickness to any desired angle. They are easily adjusted, and will do the work with facility and neatness. The mitre is made by a sharp knife, which leaves the cut edge smooth and accurate.

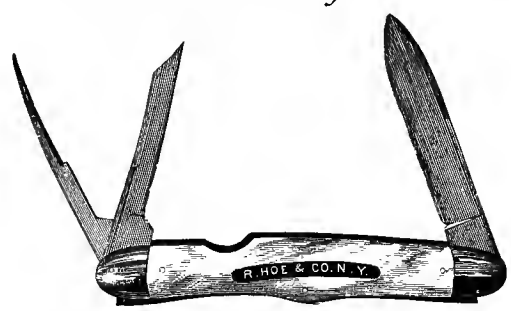
Lead and Rule Cutter.

BY this combination of levers great power is secured, and the thickest Leads or Brass Rules are cut with little exertion.



Size: Bed, 15 inches long; Shears, 3 inches
Price, $

Printer's Knife.



Price, $

Brass Galley.

Our New Patent Brass Galley is in strength and beauty a great advance on any thing before made.

Patent Combined Knife, Bodkin, and Spring Bodkin.

Price, $

Folding Spring Bodkin.

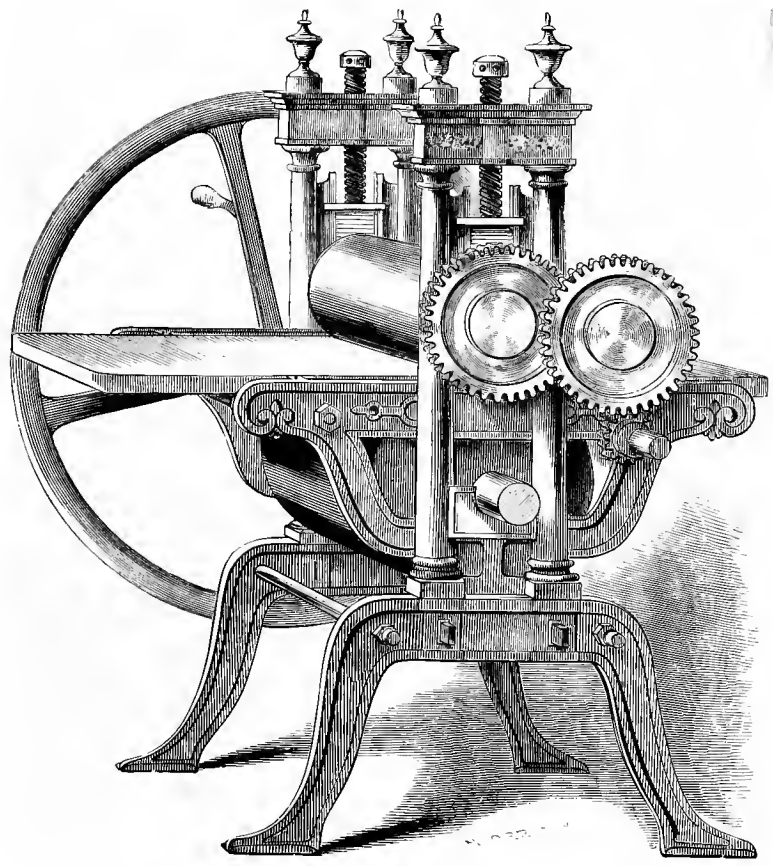
Price, $

Bodkin.

Price, $

Spring Bodkin.

Price, $



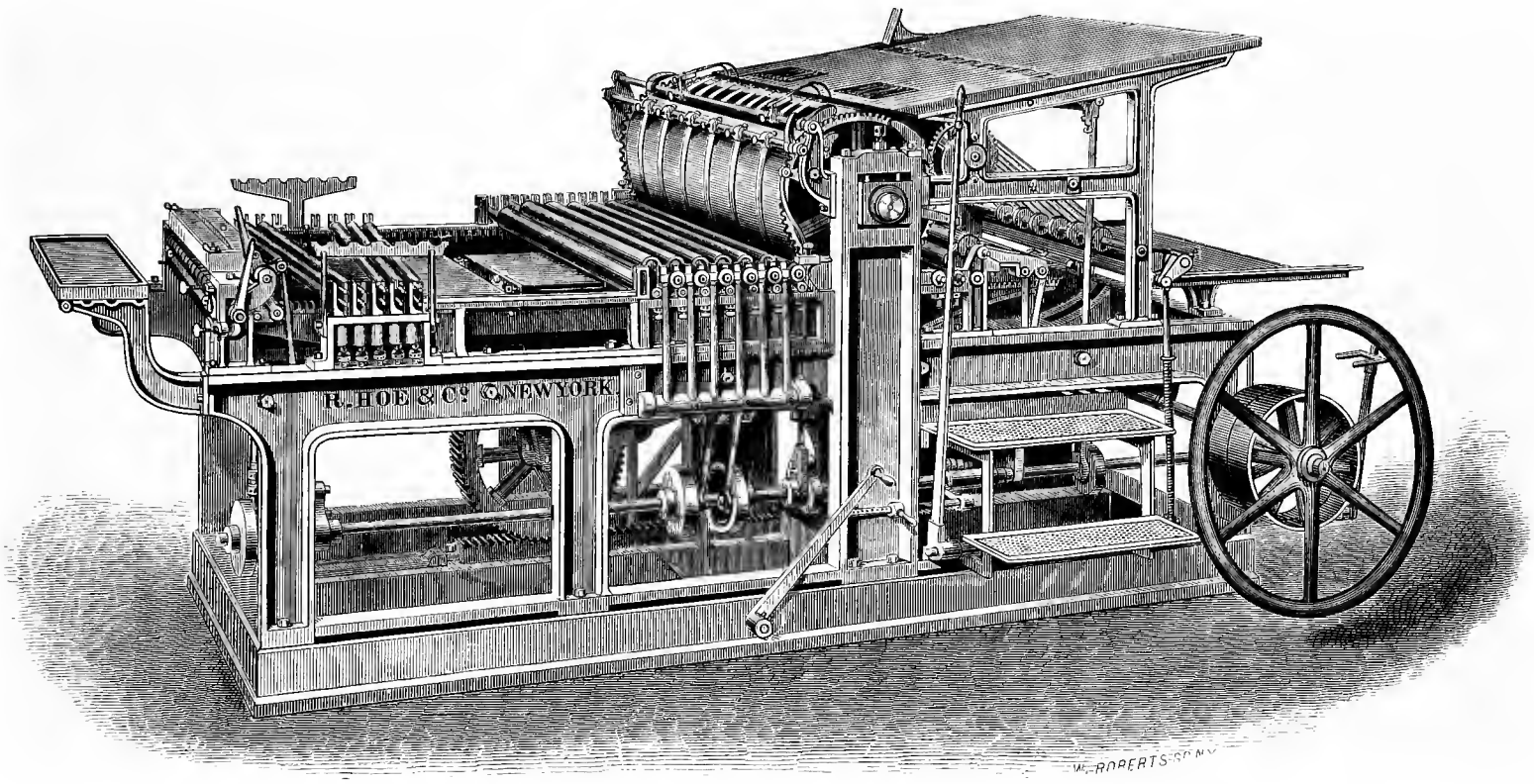
Geared Copper-Plate Press.

THIS is a heavy and powerful machine, capable of printing the largest plates. The frame is strengthened by internal wrought-iron tension rods. The gearing is double, and the bed is guided by side anti-friction rollers. It may be worked by hand, or run by steam power.

DIMENSIONS AND PRICES.

| | | |

Patent Lithographic Printing Machine.



THIS machine, in style and operation, resembles our Stop Cylinder Wood-Cut Press. The stone is placed in the traveling bed, on a plate which is adjustable vertically to suit the varying and uneven thickness of the stones, and these can also be moved laterally by set screws, without altering their height. The feed-board is furnished with adjustable guides and an improved pointing apparatus. The impression cylinder gears into a rack on the side of the bed, and is never altered in height, the stone being set instead. The register obtained is perfect. There is no danger of the stones breaking or scratching, the cylinder having rubber cushions, to compensate for any unevenness in their surface, and the points of the fingers lying in recesses out of reach. The form rollers have bearings adjustable by set screws, so as to give the desired pressure, and they are driven by gearing instead of by surface friction, which prevents any wiping of the ink upon the stone, and allows the use of riding rollers to increase the distribution. The damping apparatus is self-acting, the water being supplied from a reservoir to the wetting rollers like ink from a fountain, and these rollers are also driven by gearing so as to touch lightly on the stone.

These machines have six, seven, or eight form-inking rollers, according to size, and are arranged to run the bed once, twice, or three times to each impression, as may be desired; thus giving a distribution proportionate to the quality of the work. They will also roll any number of times without an impression while "inking up," to avoid running through waste sheets. Each machine is furnished with two sets of rollers—one for black and one for colored work.

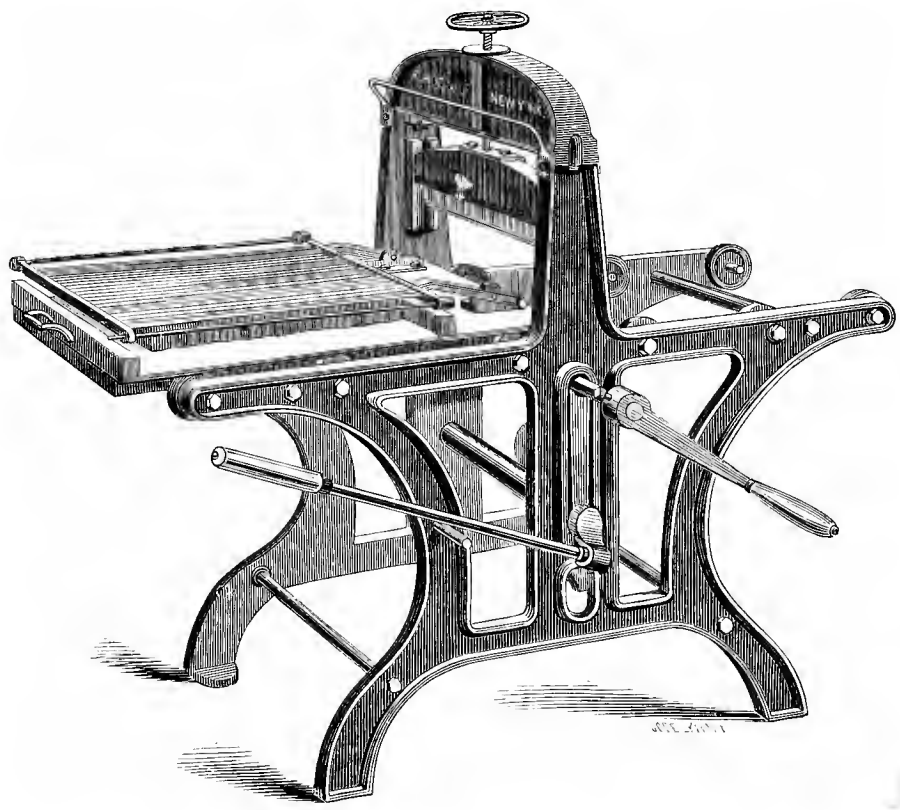
DIMENSIONS AND PRICES.

	Size of Stone.	Sizeof Design.	No. of Inking Rollers passing over the Form.	Price, with Apparatus to Roll Once.	Price, with Apparatus to Roll Twice.	Price, with Apparatus to Roll Three Times.
No. 1,	21 × 26 inches,	19 × 24 inches,	6,	$	$	$
No. 2,	24 × 32 "	22 × 30 "	7,			
No. 3,	28 × 40 "	26 × 38 "	7,			
No. 4,	32 × 46 "	30 × 44 "	8,			
No. 5,	36 × 52 "	34 × 50 "	8,			
No. 6,	40 × 60 "	38 × 58 "	9,			

The above includes Counter-shaft, Hangers, Driving Pulley, two Cone Pulleys, one extra set of Rollers, and Blanket.

A reduction will be made for any of these articles not required.

Hand Lithographic Press.

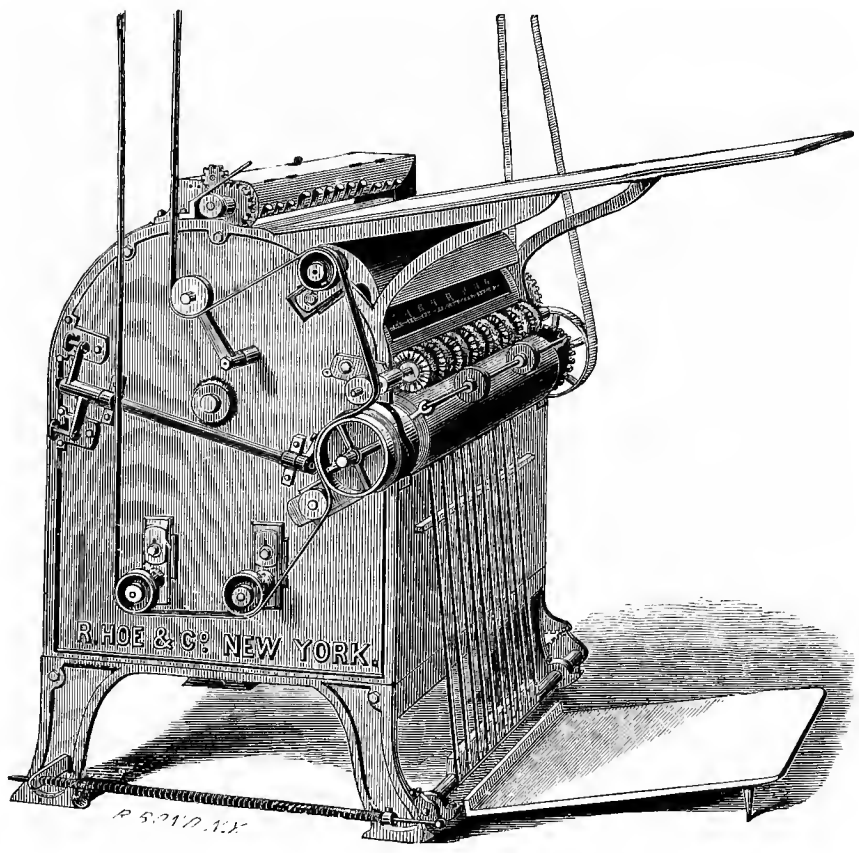


It is made of the best materials, is strong, simple, convenient, and works with great ease. The roller under the bed is geared in presses of large size, but is so arranged that it may be used with or without the gearing. The bed is made sufficiently long always to cover the roller, thus protecting it from dirt or grease from the scraper, and at the same time giving it a more even movement. The toggles are adjustable so as to vary the elevation of the bed from $\frac{1}{8}$ in. to $\frac{5}{8}$ in., as may be desired, thus permitting the use of any kind of pointing apparatus.

DIMENSIONS AND PRICES.

No. 1,	Size of Stone, 21 × 26 inches,	Size of Design, 19 × 24 inches,		$
No. 2,	" " 24 × 32 "	" " 22 × 30 "		
No. 3,	" " 28 × 40 "	" " 26 × 38 "		
No. 4,	" " 32 × 46 "	" " 30 × 44 "		
No. 5,	" " 36 × 52 "	" " 34 × 50 "		
No. 6,	" " 40 × 60 "	" " 38 × 58 "		

Patent Bronzing Machine.



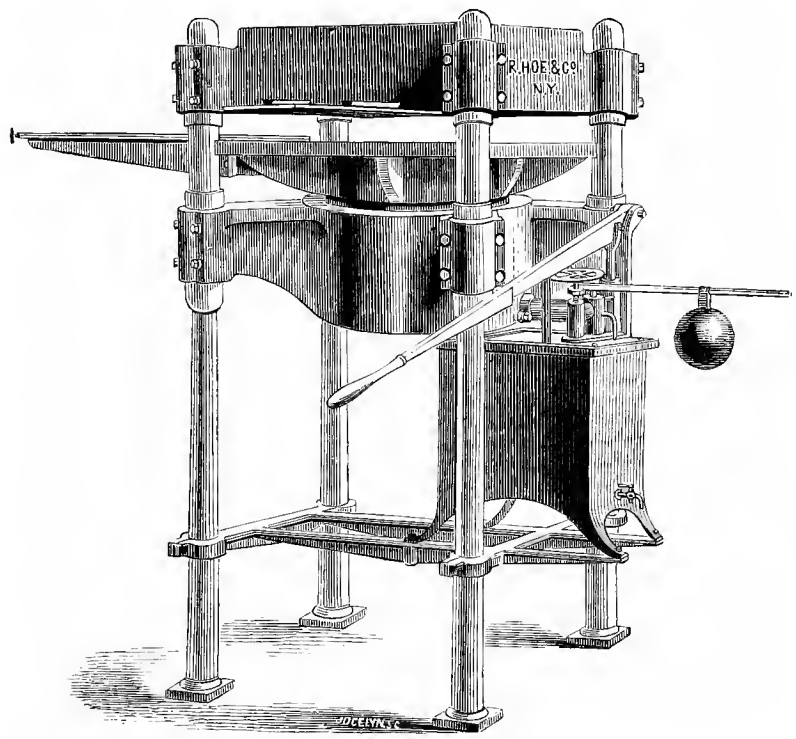
THIS Machine will do all kinds of Bronzing in the very best manner and with great economy as it turns off from a thousand to fifteen hundred sheets per hour, with no waste whatever of the powder. It works by power, is simple and easily managed.

The sheets are taken from the feed board by fingers, carried around upon a large revolving cylinder and delivered in a pile by the fly.

The bronze is fed by a rotary brush from a fountain at any desired rate, and by a series of fine hair brushes is applied to the sizing and the surplus swept from the paper into a receptacle at the bottom.

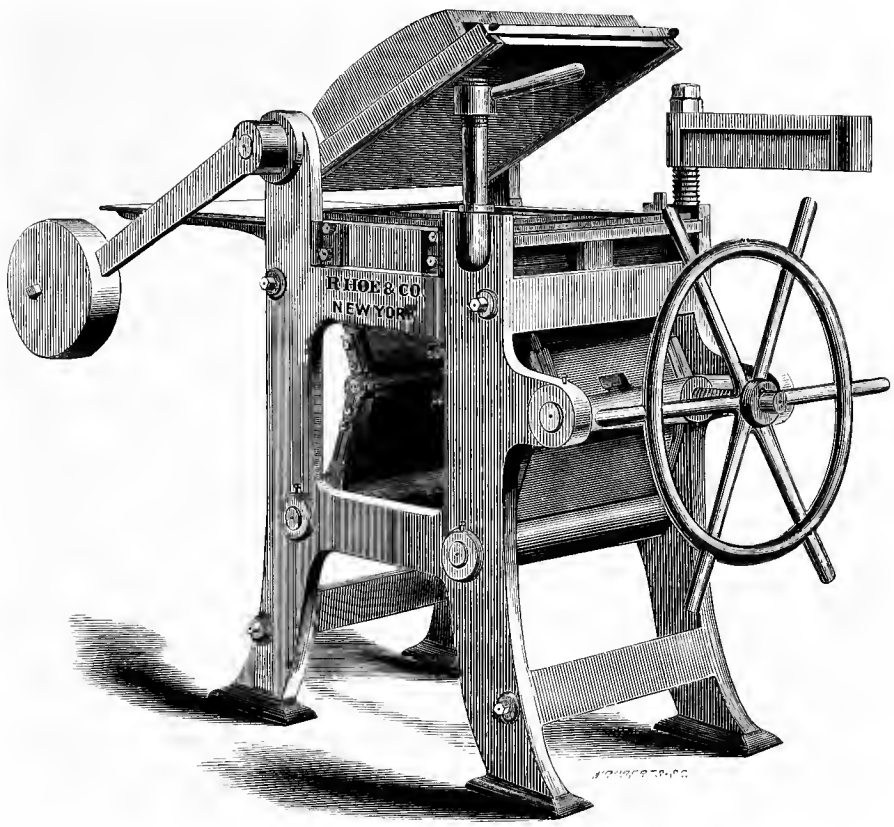
The machine will bronze the whole surface of a sheet 22 × 28 inches. It can be arranged to work wall paper. Price, $

Hydraulic Press for Electrotype Moulds.



THIS press is very convenient, compact, and powerful. The platen is provided with a projecting table, upon which the form and mould are prepared before being placed in the press. The pump is supported by a frame-work on the cistern below the cylinder, and has a safety valve so graduated as to give any required pressure. Size of chase taken on, 24 × 30 inches.

Apparatus to work by power, extra.



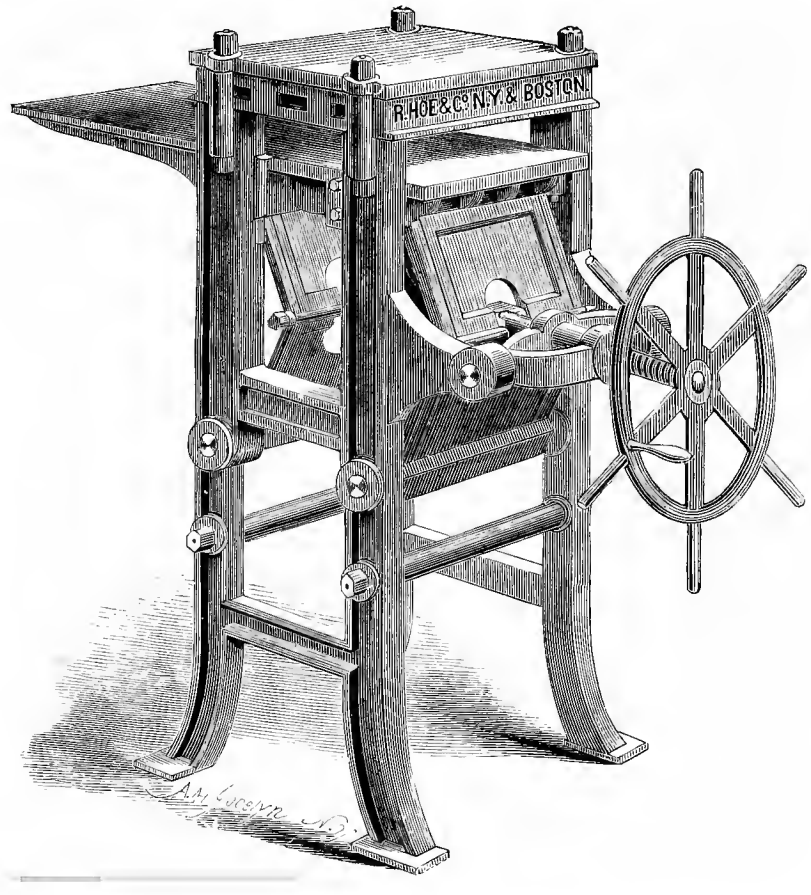
Toggle Press with Lifting Head for Electrotype Machine.

THE head of this press is hung on pivots, and so counter-balanced that it can be readily thrown up, leaving the whole bed exposed.

Size of chase taken on, 21 × 28 inches.

Weight, boxed, lbs.

Price, $



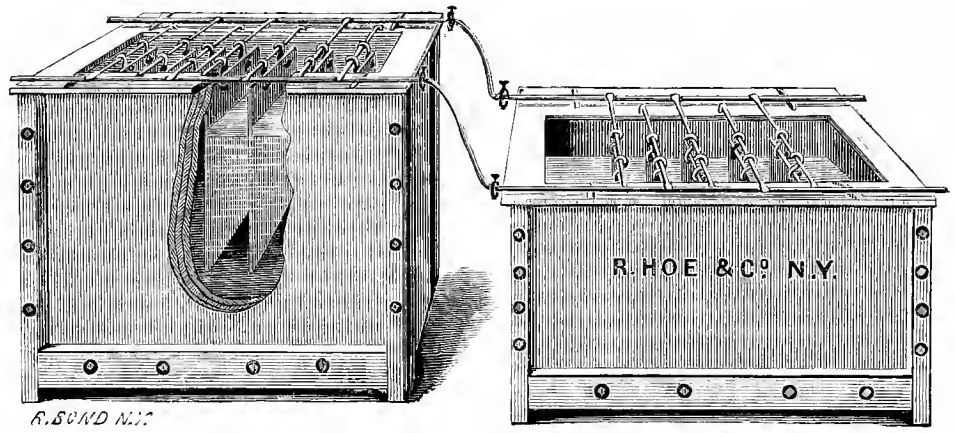
Toggle Press for Electrotype Moulds, with Fixed Head.

IN this machine the pressure is given by two toggle joints which are operated by a screw and crank wheel. The platen is provided with a projecting table where the form and mould may be arranged.

Size of chase taken on, 16 × 21 inches.

Weight, boxed, lbs.

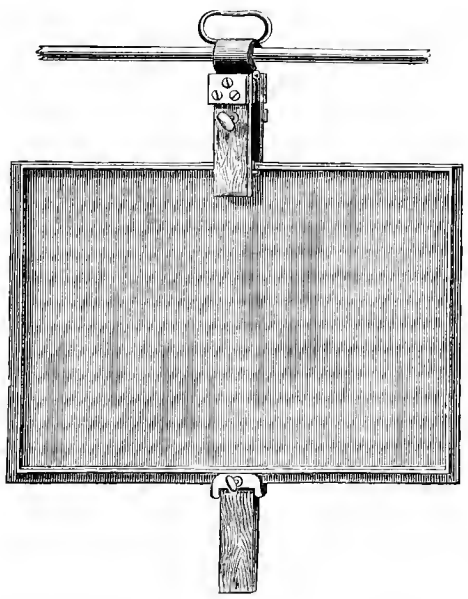
New Patent Battery for Electrotypers, Lined with Glass.



THE Battery is constructed to avoid leaking and prevent destruction of the wooden vessel by the acids in use in the Battery, against the action of which coal tar, parafine, varnishes, etc., are ineffective. It is lined with thick glass, united at the joints; and leakage is guarded against by cement and a filling of an insoluble hydro-carbon substance.

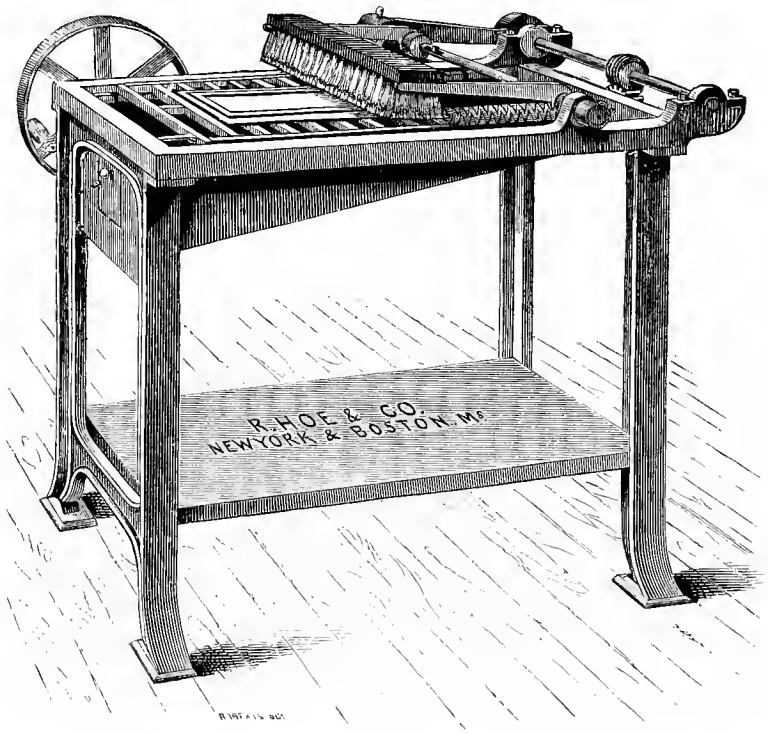
Building Iron.

Patent Electric Connection Gripper.



The Gripper is made to hold and sustain the moulding pan, and at the same time make an electric connection with the prepared conducting pan of the mould only: consequently the metal pan itself is entirely out of the current of electricity.

Patent Blackleading Machine.

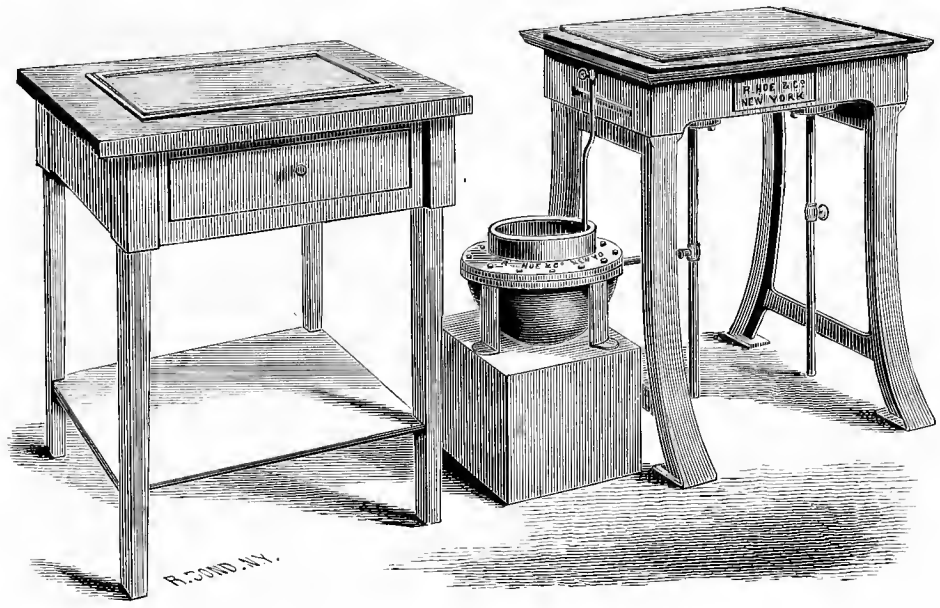


DIMENSIONS AND PRICES.

Size.	Dimen. of Mould.	Price.	Boxing and Shipping.
No. 1 will blacken	12 × 18 inches.	$	$
No. 2 " "	18 × 24 "		
No. 3 " "	24 × 30 "		

Counter-shaft, hangers, tight and loose pulleys, and two driving pulleys for steam power, extra.

Iron Topped Filling Table, and Wax Kettle and Heating Table.



THE moulding cases are warmed on the Steam Heating Table, preparatory to filling with wax on the Filling Table. The condensed steam furnishes a supply of hot water for detaching the copper shells from the moulds. The cases are then placed bottom upwards on the Heating Table, and the wax as it melts is conveyed by channels back to the Wax Kettle.

DIMENSIONS AND PRICES.

No. 4.	Steam Heating Table, for No. 1 to No. 4 Case,	$
	" Wax Kettle, 9 inches diameter,	
No. 4.	Case Filling Table, for No. 1 to No. 4 Case,	
No. 7.	Steam Heating Table, for No. 5 to No. 7 Case,	
	" Wax Kettle, 12 inches diameter,	
No. 7.	Case Filling Table, for No. 5 to No. 7 Case,	

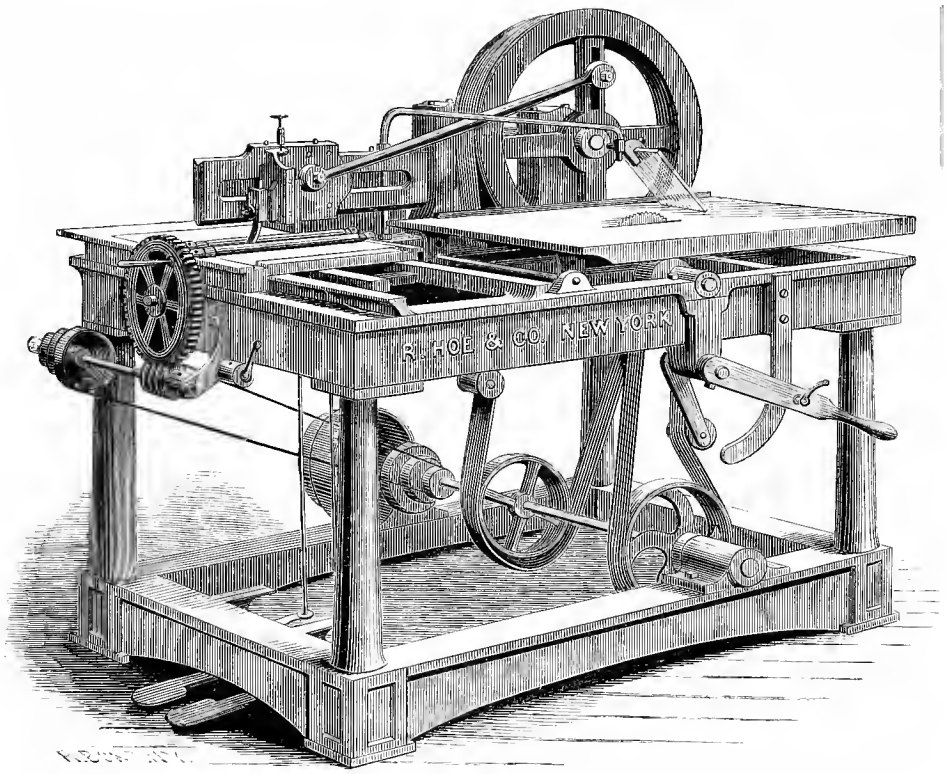
Backing Pan and Stand.

THE top of the stand should be made perfectly level, and then screwed fast to the floor by the feet. In this way the metal, when poured over the copper shell, will be uniform thickness throughout.

DIMENSIONS AND PRICES.

No. 1,	for Form	6 × 9 inches,	$
No. 2,	"	9 × 12 "	
No. 3,	"	10 × 14 "	
No. 4,	"	12 × 17 "	
No. 5,	"	14 × 19 "	
No. 6,	"	16 × 22 "	
No. 7,	"	18 × 24 "	
No. 8,	"	21 × 28 "	
Iron Stand,			

Stereotype Planing and Sawing Machine.

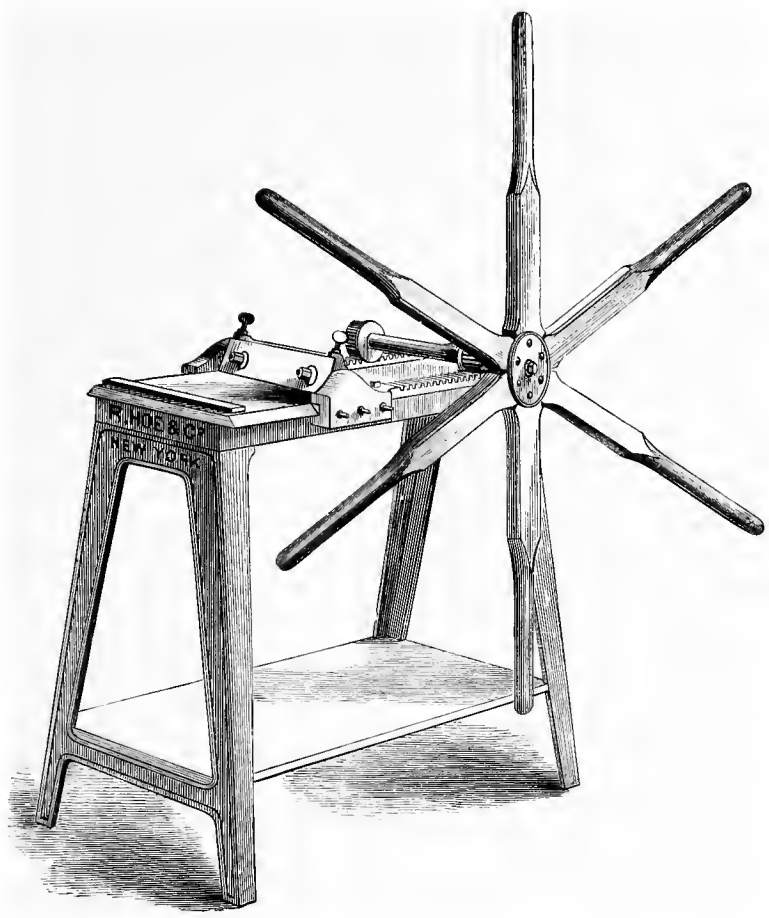


THIS machine is intended for roughing off stereotype plates before sending them to the Shaving Machine, and is very simple, quick, and efficient in operation. A circular saw runs in an elevating iron table at one corner, for squaring up.

A counter-shaft, hangers, cone pulleys, and fast and loose pulleys are furnished with the machine.

DIMENSIONS AND PRICES.

No. 1.	Size plate planed, 12 × 20 inches,	with Saw Table,	To run by hand, $	To run by power, $
No. 1.	" " " 12 × 20 "	without "	" "	" "
No. 2.	" " " 17 × 30 "	with "	" "	" "
No. 2.	" " " 17 × 30 "	without "	" "	" "



Stereotype Shaving Machine.

THIS machine, for thicknessing stereotype plates, is made all of iron. It consists of a table, planed true, on which the plates are placed, and a head, with adjustable knife, driven by gearing behind it.

DIMENSIONS AND PRICES.

No. 1. Bed 12 inches wide, $

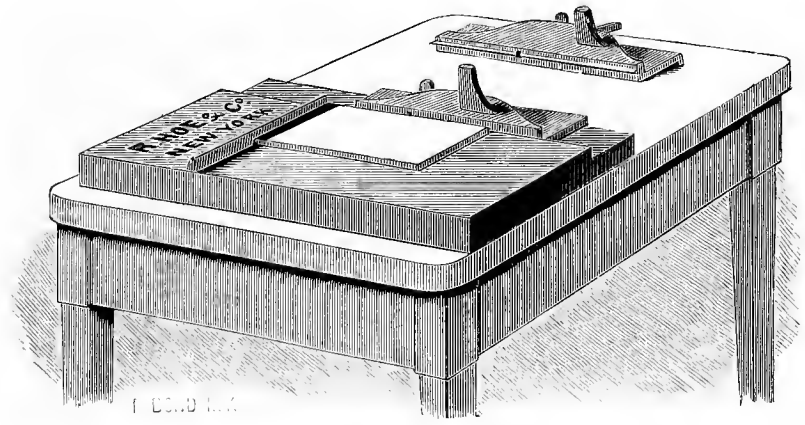
No. 1. Extra head,

No. 2. Bed 17 inches wide,

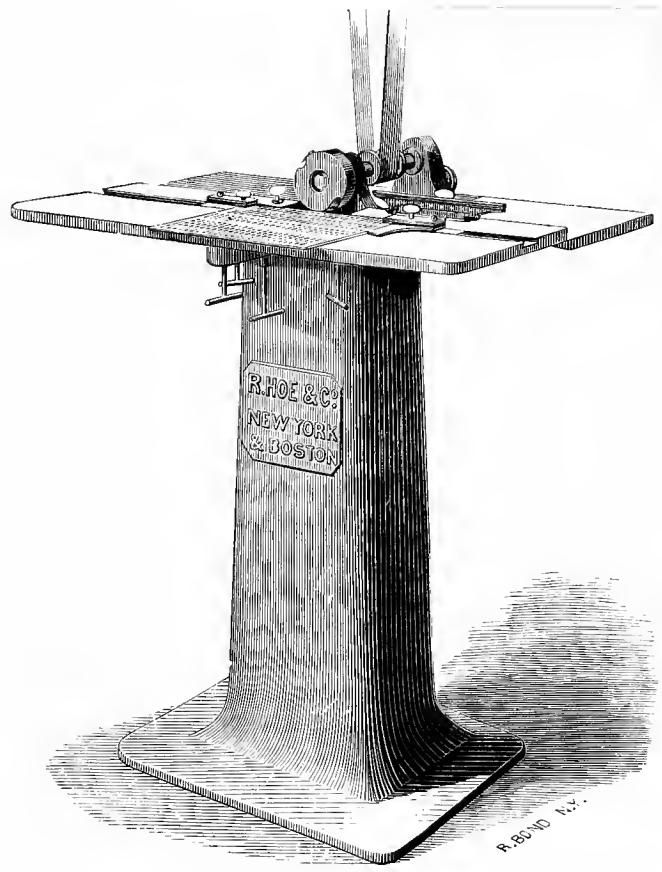
No. 2. Extra head,

If ordered with gearing, extra.

Shoot-Board and Two Planes.



Without table, $



Patent Stereotype-Plate Beveling Machine.

THIS little machine dresses off and bevels the edges of stereotype and electrotype plates in the most perfect and rapid manner. The edge of the printing matter is placed against an adjustable side gauge, secured in this position by clamps, and passed quickly before the revolving cutter, a stationary cutter at the same time taking off the sharp corner from the under edge of the plate. The table can be adjusted in height and also inclined to give a bevel more or less acute, and the revolving cutter-head is adjustable horizontally to suit the position of the table. A brass cover over the cutter prevents the chips from flying, and drops them into a box below.

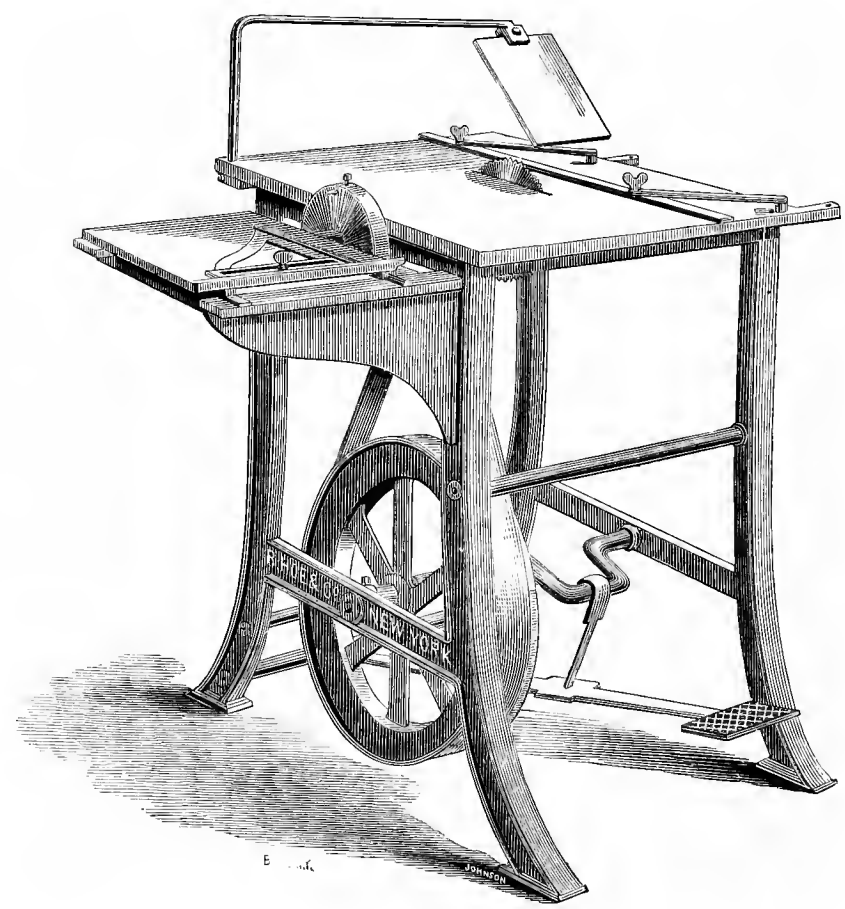
A counter-shaft, hangers, tight and loose pulleys, driving pulleys, and a set of cutters, with gauges for grinding and setting them, accompany each machine

No. 1, for Book work, . . $
No. 2, for Newspaper work, .

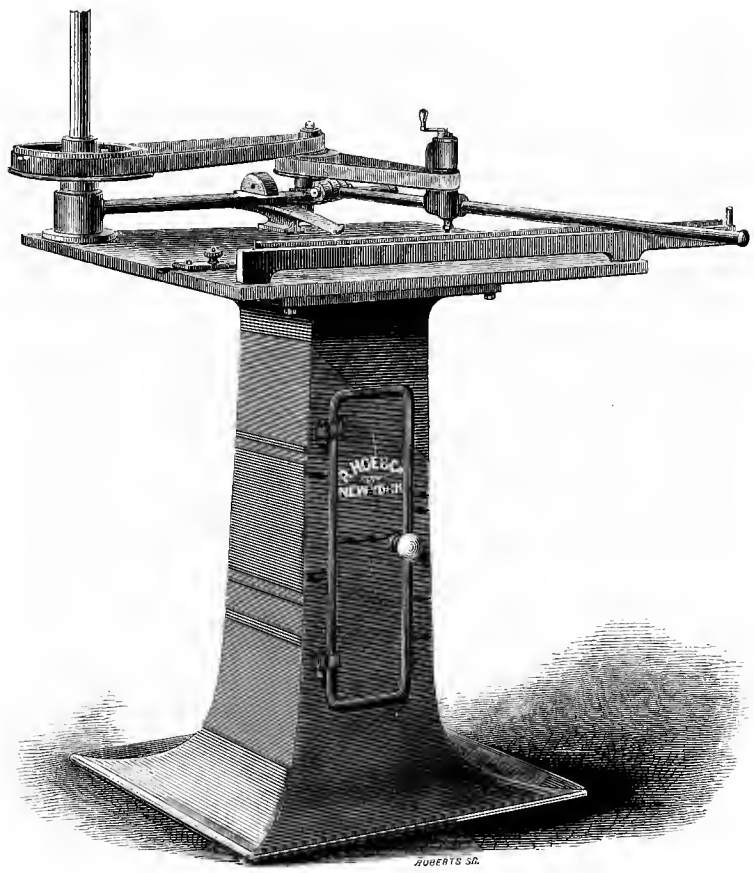
Stereotypers' Saw Table.

THE mandrel is of steel, driven by a treadle, the heavy fly-wheel having the momentum sufficient to carry the saw through the work. This wheel is so balanced as to stand with the treadle always raised from the floor, in a position to start. The saw can be sharpened in place by pressing a wooden wedge beside it into the slit in which it runs. A glass protects the eyes from chips. For running by power, the fly-wheel and cranked shaft are replaced by an ordinary pulley, and a straight shaft having tight and loose pulleys on its outer end. When so ordered, a cutter-head is put on the outer end of the mandrel, with a small sliding table outside of it, as represented in the cut, for squaring up metal blocks, etc. Parallel gauge and square furnished when ordered.

Table and Saw to work by foot or steam power, . $
With Outside Cutter Head and Sliding Table, extra,
Parallel Gauge and Square, extra, .



Stereotype Routing Machine.

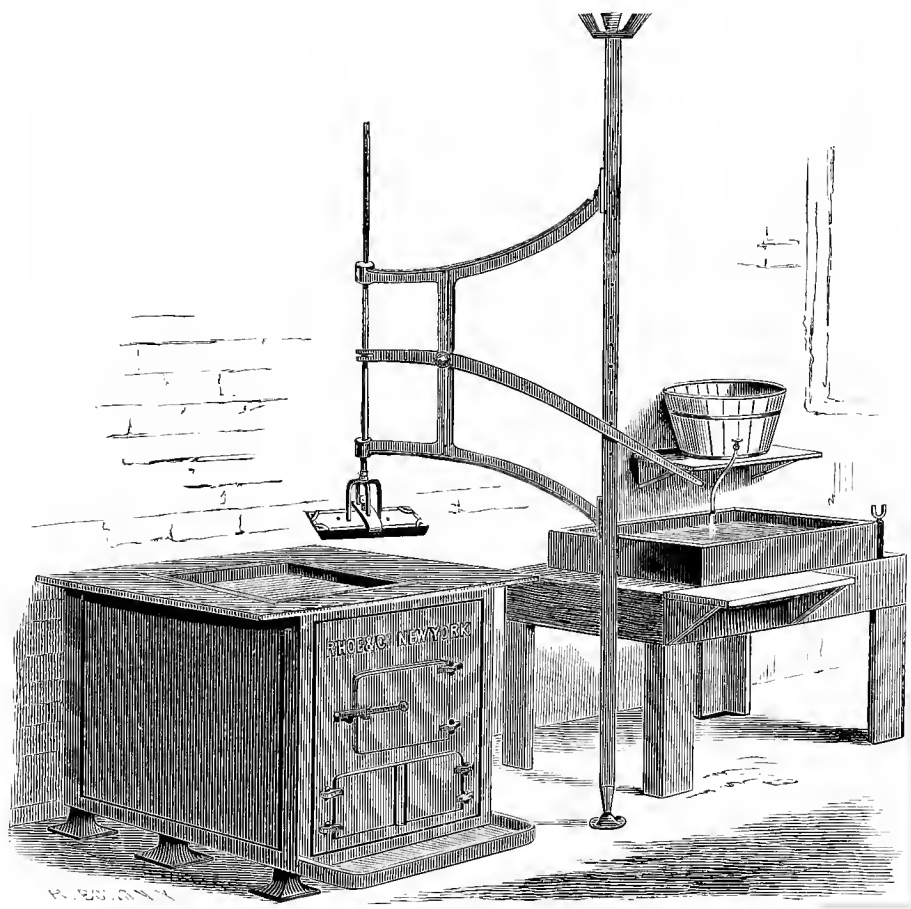


THIS machine is intended for cutting out the blank spaces in electrotype and stereotype plates, and is constructed entirely of iron. Power is communicated to the upright shaft in the corner of the table, and thence by pulleys and belts to the steel cutters, which revolve seven thousand times a minute, and which, by means of the double lever, can be brought to any point with ease and precision. A spring rest prevents the tool from touching the plate till pressed down by the operator. The stand contains shelves for tools.

This machine can also be adapted to the use of wood engravers.

Six cutters from $\frac{1}{16}$ to $\frac{1}{2}$ inch in diameter are furnished with the machine.

Melting Furnace, Crane, Casting Pan, and Cooling Trough, Plaster Process.



WITH POT FOR PLASTER PROCESS.

No. 1.	Size 11 × 15 × 10 inches,	.	$
No. 2.	" 15 × 20 × 10 "	.	
No. 3.	" 19 × 25 × 10 "	.	

WITH POT FOR ELECTROTYPING.

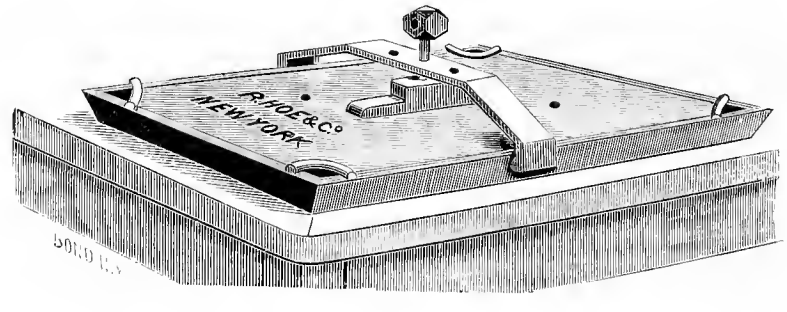
No. 1.	Size 12 × 16 × 5 inches,	.	$
No. 2.	" 16 × 21 × 5 "	.	
No. 3.	" 20 × 26 × 5 "	.	
No. 1.	Crane, small size,	.	
No. 2.	" large "	.	

Casting Pan.

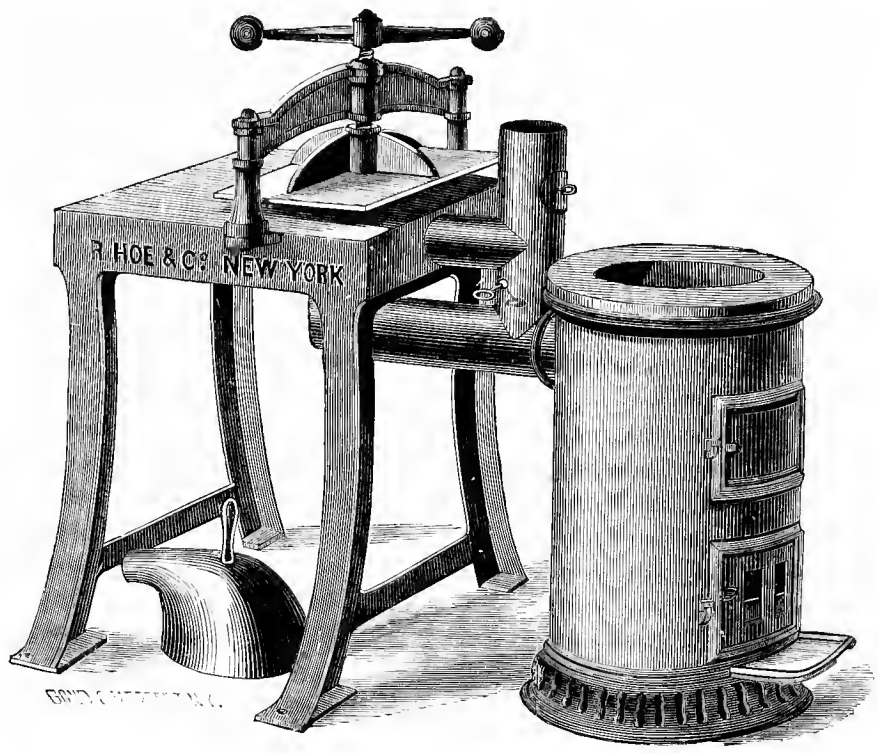
ALL SIZES.

No. 1.	Casting Pan for Form 6 × 9 inches,	.	$
No. 2.	" " " 9 × 12 "	.	
No. 3.	" " " 10 × 14 "	.	
No. 4.	" " " 12 × 17 "	.	
No. 5.	" " " 15 × 20 "	.	
No. 6.	" " " 16 × 22 "	.	

Cooling Troughs of all sizes.



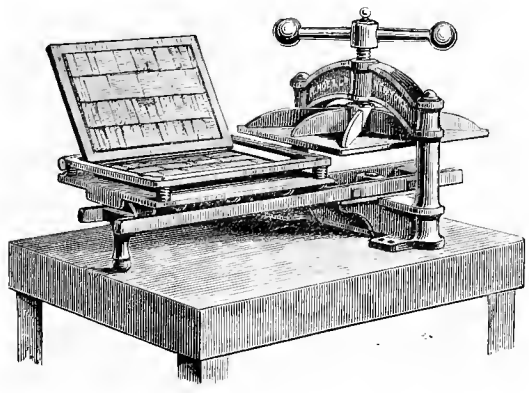
Small Melting Furnace and Drying Press, Combined.



No. 3. Size of Platen, 10 × 14 inches, ... Price, $

Press for Stereotype Moulding,

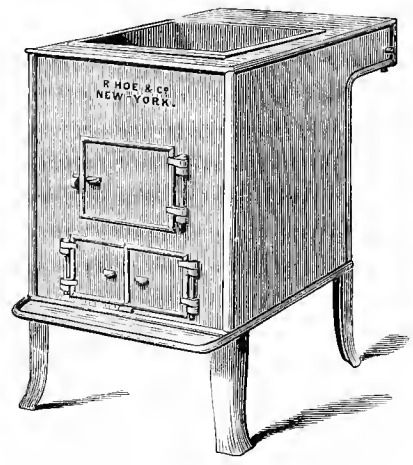
CLAY PROCESS.



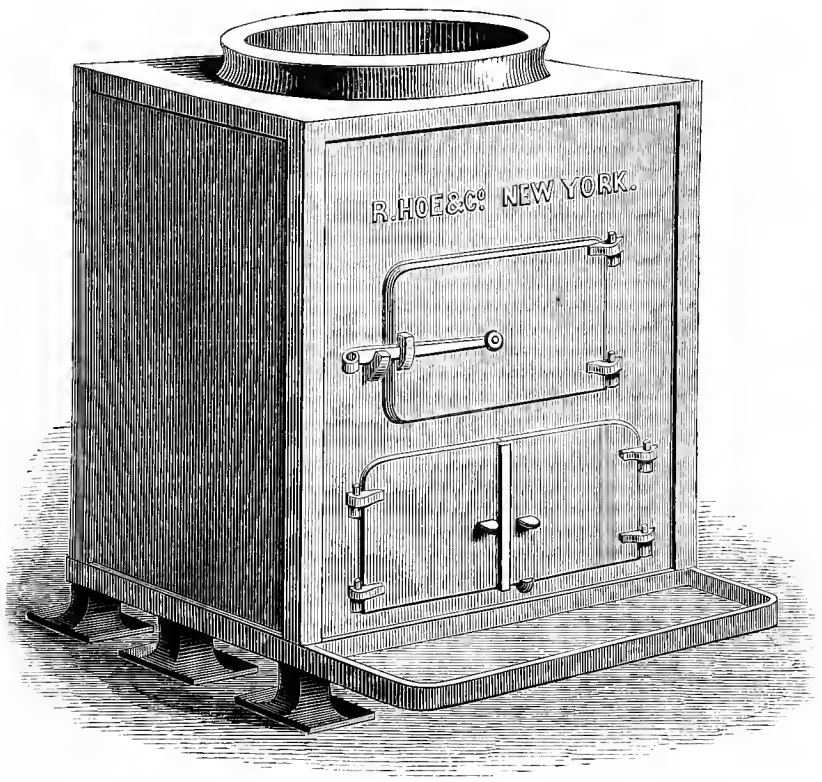
No. 2. Platen, 9 × 12 inches, $

Stereotype Melting Furnace,

CLAY PROCESS.



Capacity, 300 lbs., . . $



Stereotype Melting Furnace.

THIS Furnace is strongly made of iron and lined with fire-brick. It stands clear of the floor on feet; and, as the bottom is lined, and a hearth projects in front of the doors, it is entirely free from the danger of setting fire.

DIMENSIONS AND PRICES.

WITH CIRCULAR MELTING POT FOR PAPER PROCESS.

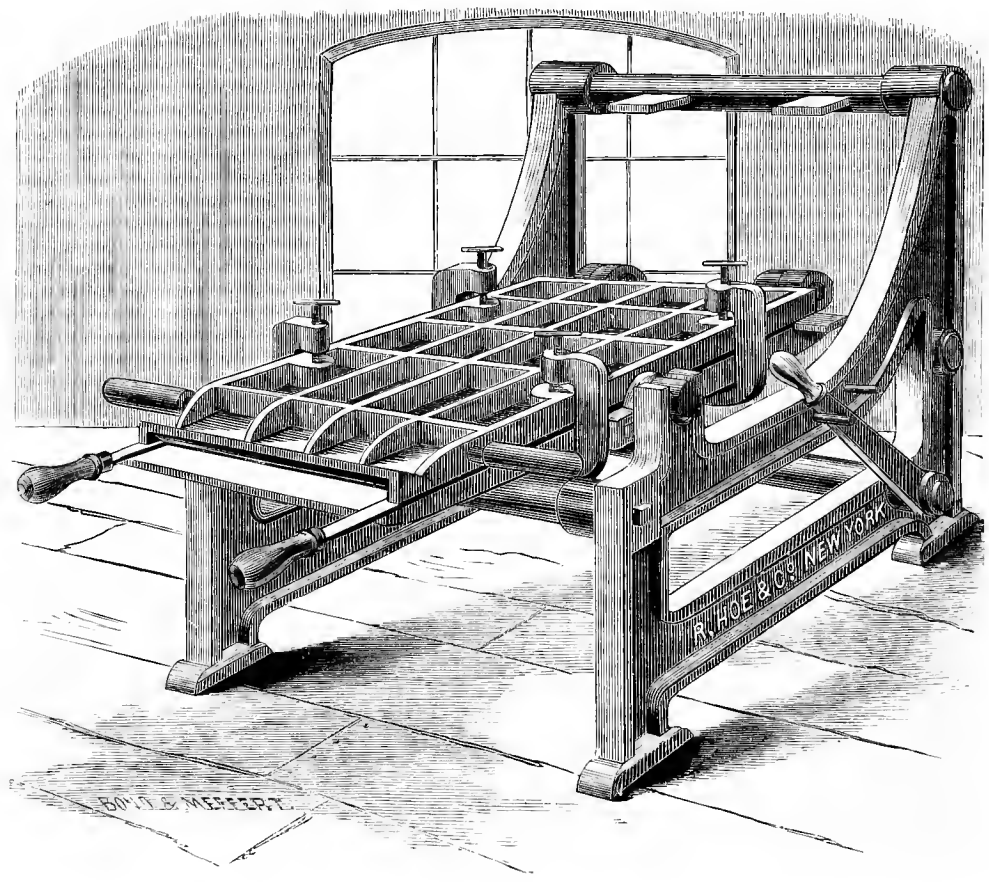
Size.	Diam. of Pot.	Price.	Boxing and Shipping.
No. 1,	12 inches,	$	$
No. 2,	16 "		
No. 3,	20 "		
No. 4,	24 "		
No. 5,	28 "		

Stereotype Plate Mould for Paper Process.

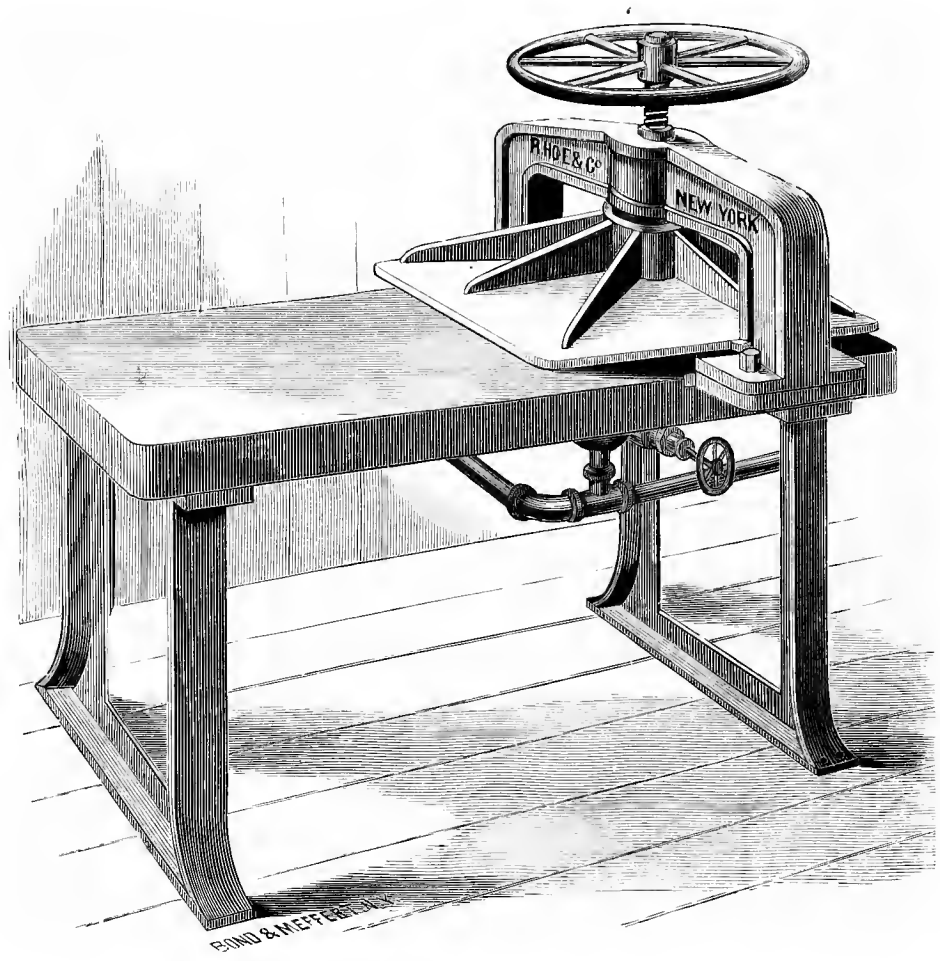
THIS Mould for casting stereotype plates from a paper matrix, is made of iron and balanced in bearings in an iron frame. When used, it is held in a horizontal position by a trip lever, and the cover is thrown up against the back stay. The matrix is then laid in, the gauge bars adjusted to it, and the cover closed. In the smaller sizes, the cover is secured by a single screw in the centre; but in the larger sizes, it is fastened by four or six clamps at the sides. The Mould is then turned in an upright position to receive the metal, and back to a horizontal one to have the stereotype plate removed.

DIMENSIONS AND PRICES.

Size.	For Plate.	Flat Mould.	Curved Mould.
No. 2,	9 × 12 inches,	$	$
No. 4,	12 × 17 "		
No 5,	15 × 20 "		
No. 7,	18 × 24 "		
No. 8,	21 × 28 "		
No. 9,	24 × 32 '		



Stereotype Mould Drying Press for Paper Process.



This apparatus is for drying the matrix on the form of type. The table is heated by steam, which, at ordinary pressure, will dry a matrix in from six to eight minutes. Where haste is important, steam platens are furnished, by which the time of drying is reduced nearly one half.

DIMENSIONS AND PRICES.

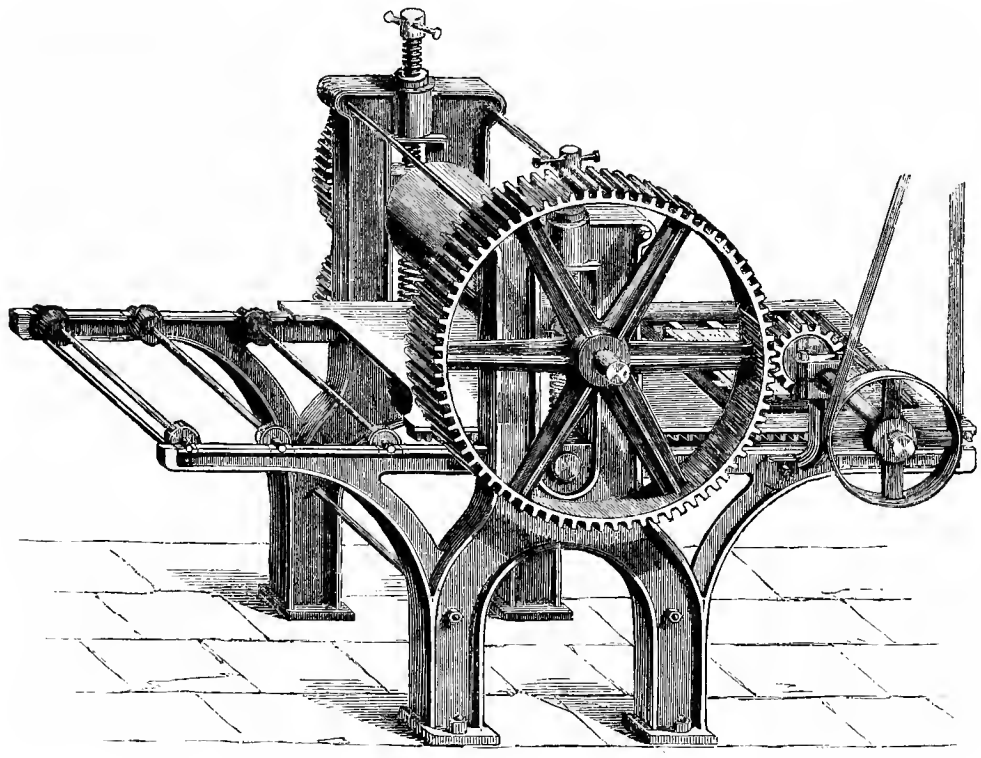
Size.	For Form.	Price.	Price with Steam Platen.
No. 2,	9 × 12 inches,	$	$
No. 4,	12 × 17 "		
No. 5,	15 × 20 "		
No. 7,	18 × 24 "		
No. 8,	21 × 28 "		
No. 9,	24 × 32 "		

Iron Top Beating Table for Paper Process.

DIMENSIONS AND PRICES.

No. 5,	for Form	15 × 20	inches,	with Elevating Top, $			with Fixed Top, $		
No. 7,	"	18 × 24	"	"	"	"	"	"	"
No. 8,	"	21 × 28	"	"	"	"	"	"	"
No. 9,	"	24 × 32	"	"	"	"	"	"	"

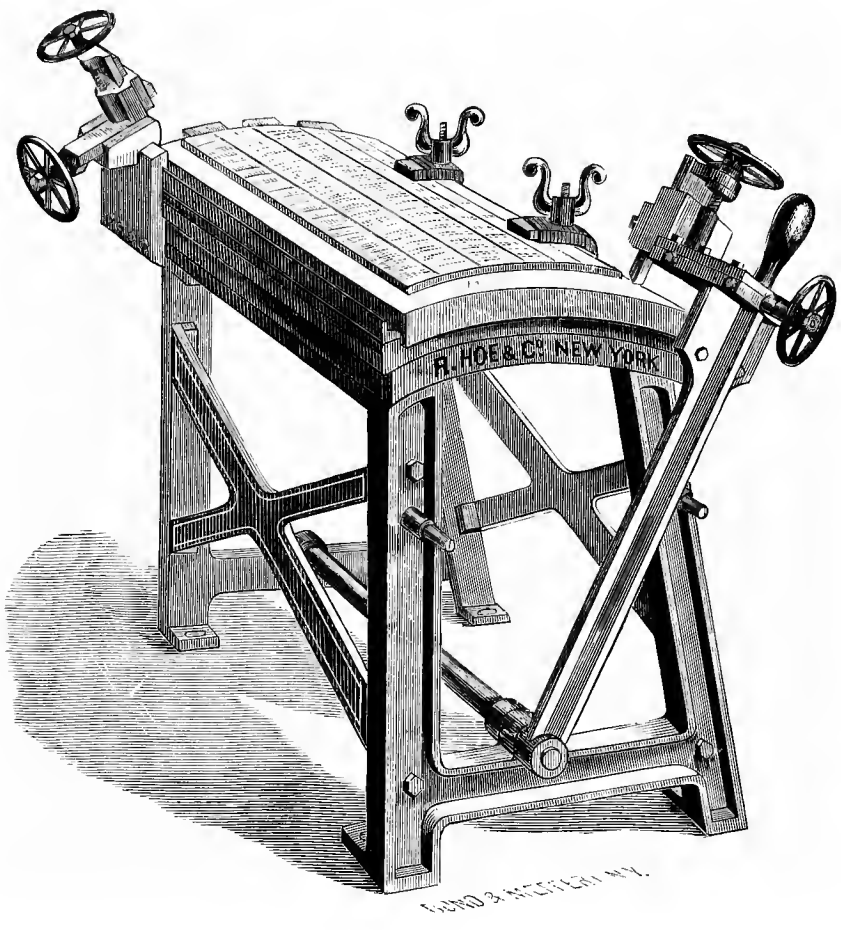
Matrix Rolling Machine, for Newspaper Work.



THIS machine takes the place in large establishments of the beating table and brush, and on it a paper matrix can be prepared for the drying press in from two to four minutes, thus making a very considerable saving in time. The form is laid upon the traversing bed and passes slowly backward and forward under the large roller. The machine is constructed entirely of iron in a very substantial manner.

Size of bed, 32 × 37 inches.

Stereotypers' Dressing Table for Newspaper Plates.



THIS Machine is intended for dressing off and beveling the edges of the thick stereotype and electrotye plates used for newspaper work. The plate is placed against gauges on the table, secured by clamps, and two edges dressed ; it is then turned round on the table and finished.

DIMENSIONS AND PRICES.

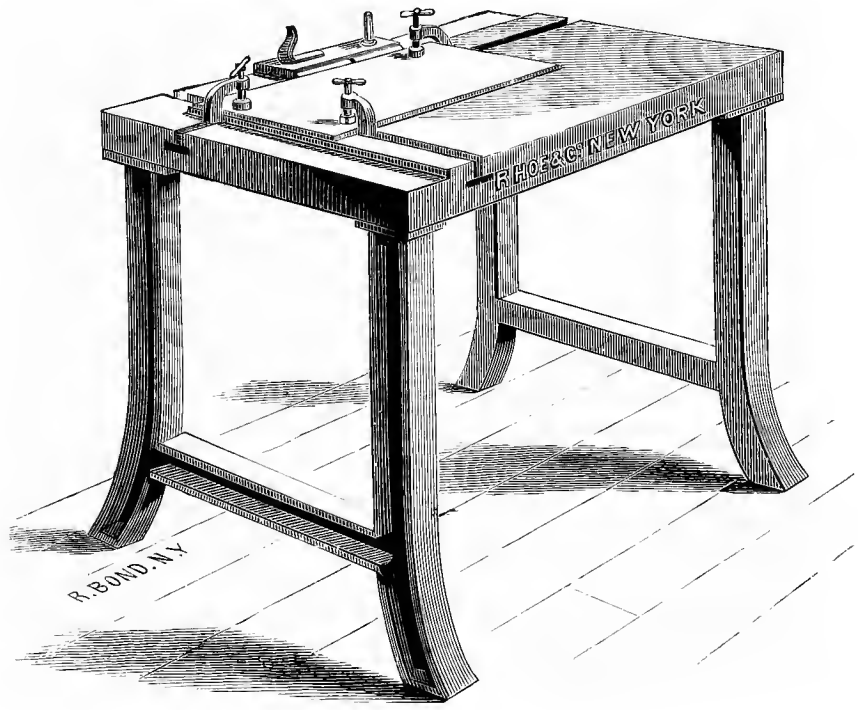
FOR FLAT PLATES.

Size.	For Plate.	Price.	Boxing and Shipping.
No. 2,	9 × 12 inches,	$	$
No. 4,	12 × 17 "		
No. 5,	15 × 20 "		
No. 7,	18 × 24 "		
No. 8,	21 × 28 "		
No. 9,	24 × 32 "		

FOR CURVED PLATES, FOR TYPE-REVOLVING PRESSES.

Size.	For Plate.	Price.	Boxing and Shipping.
No. 2,	9 × 12 inches,	$	$
No. 4,	12 × 17 "		
No. 5,	15 × 20 "		
No. 7,	18 × 24 "		
No. 8,	21 × 28 "		
No. 9,	24 × 32 "		

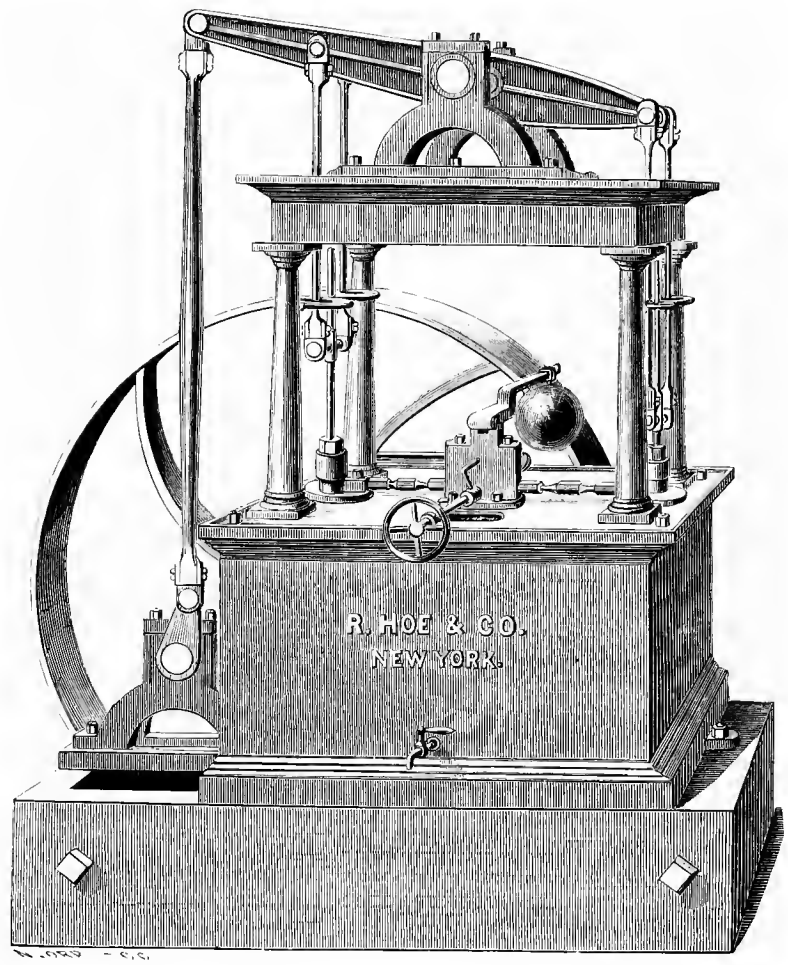
Hand-Plane Beveling Machine for Newspaper Work.



THIS Table is intended for beveling by hand the thick flat plates used in newspaper work. The plate is clamped to the table, and two edges are dressed off by the two handed plane; it is then turned around, and the remaining two edges are dressed.

DIMENSIONS AND PRICES.

			Flat, $	Curved, $
No. 2,	for Form	9 × 12 inches		
No. 4,	"	12 × 17 "	"	"
No. 5,	"	15 × 20 "	"	"
No. 7,	"	18 × 24 "	"	"
No. 8,	"	21 × 28 "	"	"
No. 9,	"	24 × 32 "	"	"

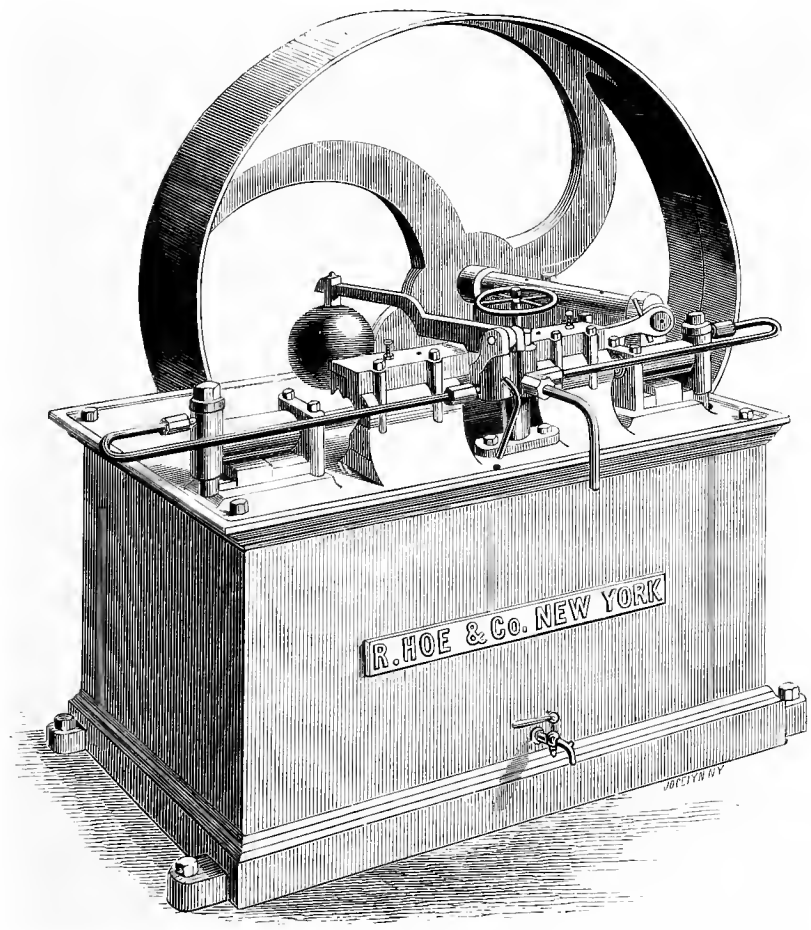


Double Vertical Steam Pump.

THIS Pump is finished in the most thorough manner, and any number of presses may be operated by it by means of the proper connections. Running at its usual speed of fifty revolutions per minute, it will raise the platen of a twelve-inch hydraulic press at the rate of one inch and a half per minute. The cistern should be frequently cleansed and supplied with pure water.

Space occupied on floor, 4 feet by 6 feet 8 inches. Capacity of Cistern, 55 gallons. Height, 6 feet. Weight, 2400 pounds.

Price, $



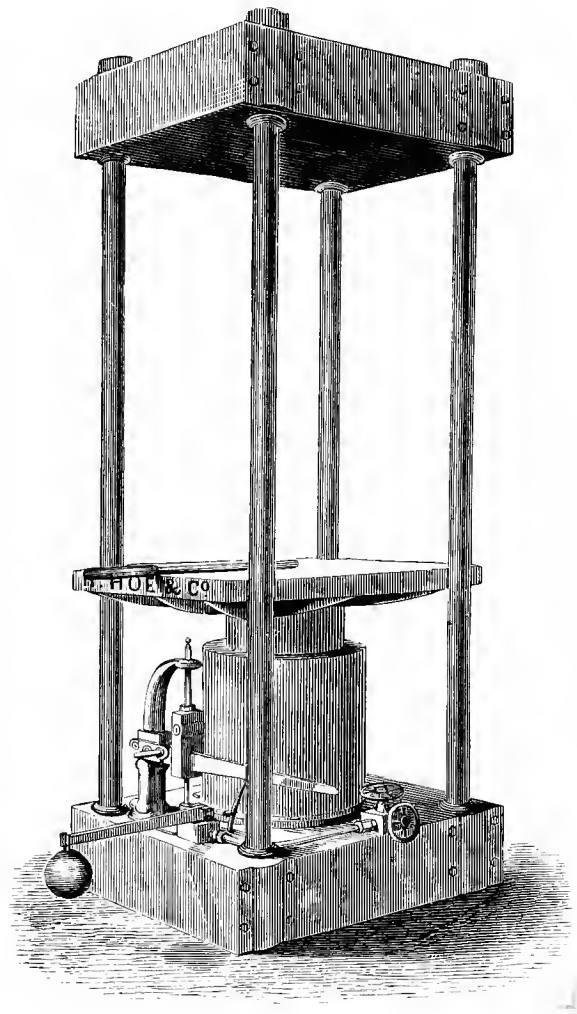
Double Horizontal Steam Pump.

THE action is simple and direct. The cylinders are in line on the water cistern, and the plungers fixed in a sliding-head moving in an adjustable guide-block. A number of hydraulic presses may be worked by this pump, which, at its usual speed of fifty revolutions per minute, will raise the ram of a twelve-inch press one inch and a half per minute. The cistern should be frequently cleansed and supplied with pure water.

Room occupied on the floor, 3×5 feet. Weight, 1400 lbs. Capacity of Cistern, 50 gallons.

Price, $

Hydraulic Press.



THE cylinder is of solid wrought iron, and lined with copper. The rods are fagoted. The pump may be placed on the base of the press as shown in the cut, or on a separate cistern.

The cylinder should be wiped out from time to time, and the cistern frequently cleansed and supplied with pure water.

DIMENSIONS AND PRICES.

Diameter of Ram.	Size of Platen.	Greatest Space between Head and Platen.	Length of Rods.	Pressure obtained.	Price.
6 inch,	25 × 37 inches,	48 inches,	8 feet 4 inches,	140 tons,	$
8 "	26 × 40 "	54 "	9 " 2 "	250 "	
10 "	28 × 44 "	66 "	10 " 8 "	390 "	
12 "	32 × 47 "	72 "	11 " 8 "	560 "	
14 "	35 × 51 "	72 "	12 " 3 "	765 "	
16 "	38 × 55 "	72 "	12 " 9 "	1005 "	

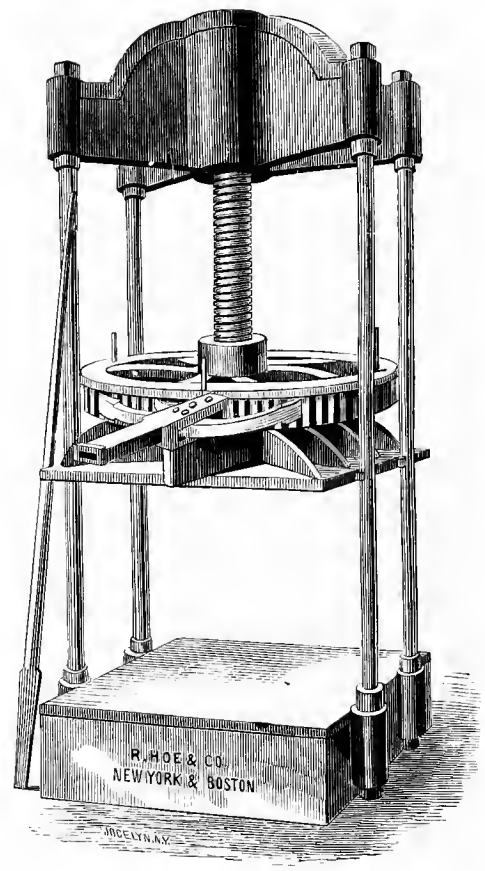
Other sizes and designs made to order.

PUMPS.—Single Pump, on base of Press (as shown in cut) . . $

Single Pump, on separate Cistern . . . . .

Double Pump, on separate Cistern . . . . .

Power may be applied to these Pumps by means of Counter-Shaft and Connecting Rod at an expense of about $

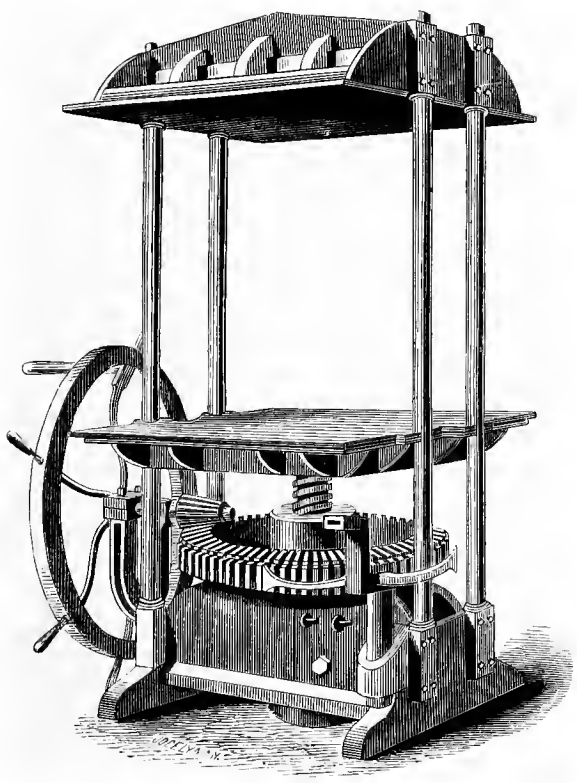


Single Geared Iron Standing Press.

THIS press is all iron. The bed and platen are planed true, and the pawls are so arranged as to work the wheel with the backward as well as the forward motion of the lever.

DIMENSIONS AND PRICES.

	Diameter of Screw.	Size of Platen.	Price.
No. 3,	4½ inches,	24 × 29 inches,	$
No. 4,	5 "	26 × 34 "	

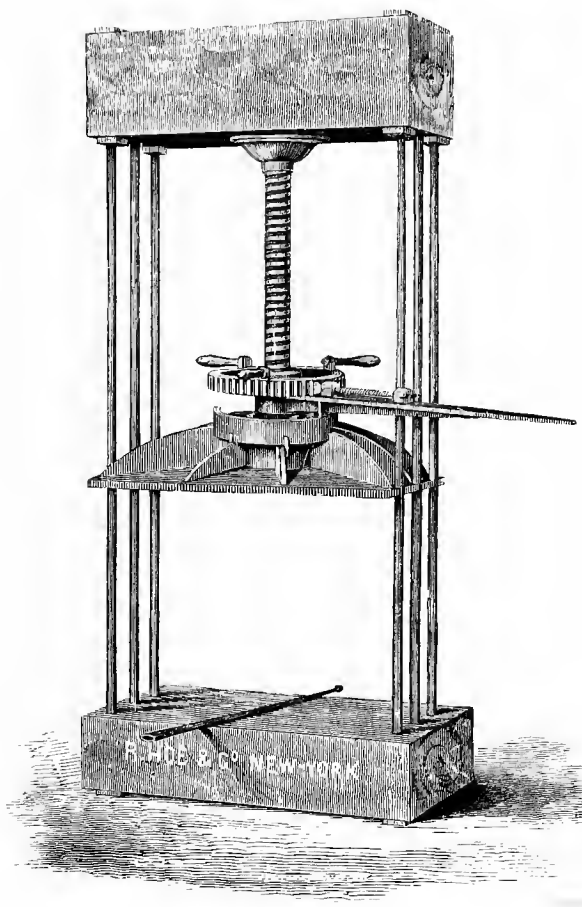


Double Geared Iron Standing Press.

THIS is a simple yet very powerful press, constructed entirely of iron. The pawls are so arranged as to work the gear with the backward as well as the forward motion of the lever. The bed and platen are planed true.

DIMENSIONS AND PRICES.

	Diameter of Screw.	Size of Platen.	Greatest Space bet. Head and Platen.	Space occupied on floor.	Price.
No. 5,	5½ inches,	29 × 42 inches,	53 inches,	42 × 54 inches,	$
No. 6,	6 "	32 × 47 "	53 "	40 × 54 "	

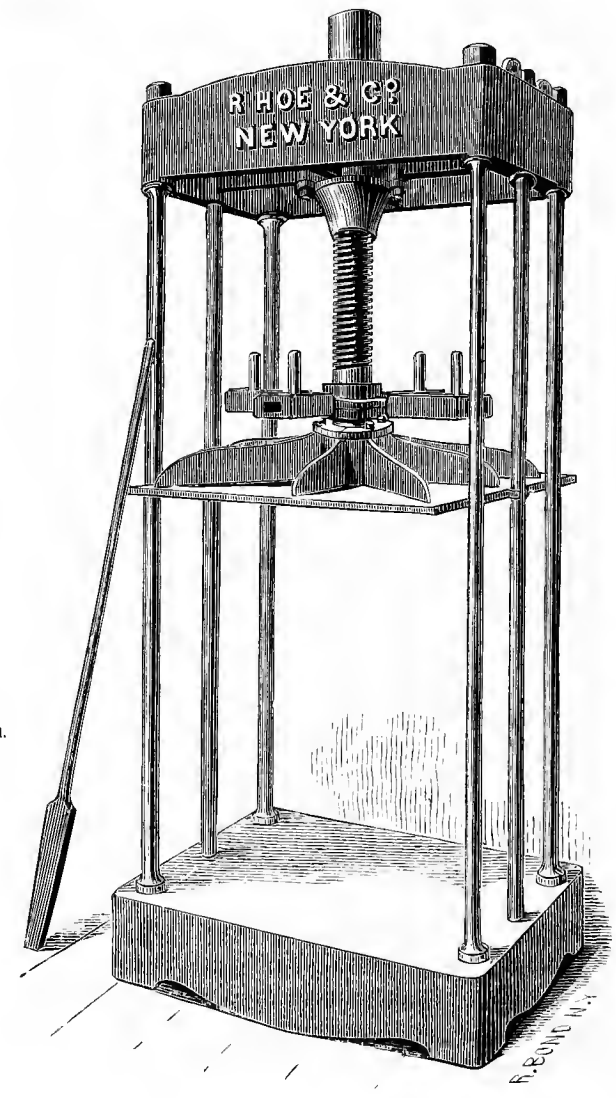


Oak Standing Press.

THE box is of brass; the platen planed true. The timber used is of the best quality, well seasoned, and secured by iron plates, bolts, and nuts. The gear is turned either by means of a nut with four sockets, or by a spring ratchet, shown in the cut.

DIMENSIONS AND PRICES.

	Diameter of Screw.	Size of Platen.	Price with Four-socket Nut.	Price with Ratchet Wheel.
No. 1,	2½ inches,	17 × 21 inches,	$	$
No. 2,	3 "	19 × 24 "		
No. 3,	3½ "	24 × 29 "		
No. 4,	4 "	26 × 34 "		

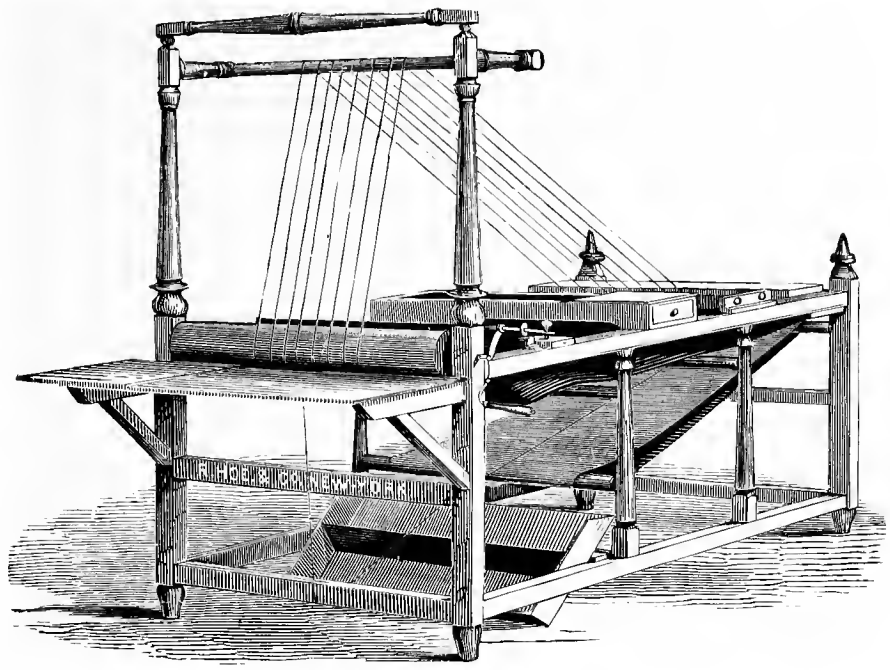


Iron Standing Press, with Brass Box.

THIS is entirely of iron, except the brass nut. It is made to work as desired, either with a spring ratchet or with the four-socket nut shown in the cut. The screw is covered by a tin box.

DIMENSIONS AND PRICES.

	Diameter of Screw.	Size of Platen.	Price with Four-socket Nut.	Price with Ratchet Wheel.
No. 1,	2½ inches,	17 × 21 inches,	$	$
No. 2,	3 "	19 × 24 "		
No. 3,	3½ "	24 × 29 "		
No. 4,	4 "	26 × 34 "		

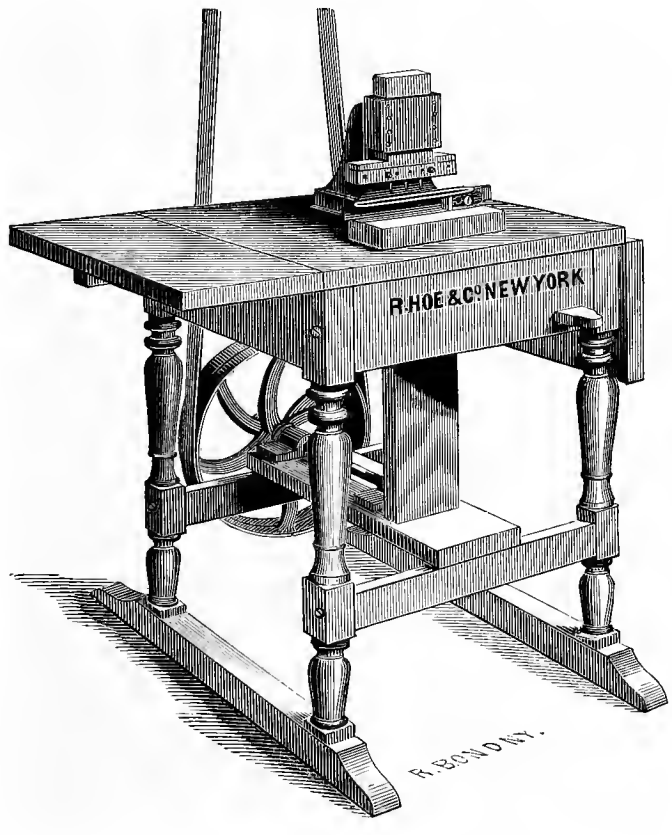


Ruling Machine for Blank Books, Bills, Etc.

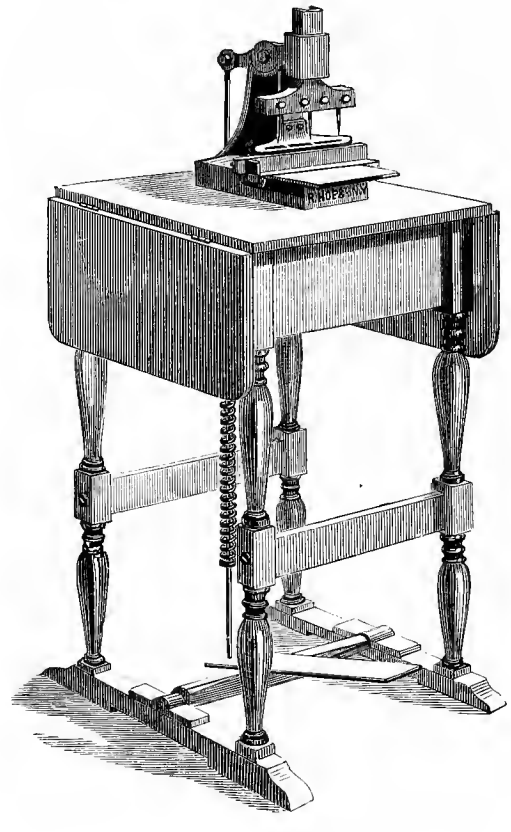
THIS machine is thoroughly well made, the bearings being of brass, accurately fitted, and the principal cylinders, which are of mahogany, being with their cloths adjustable by set screws.

Width of paper ruled, 26 inches Space occupied by machine on floor, 4 feet by 11 feet 6 inches. Height, 7 feet.

Piercing or Stabbing Machines.

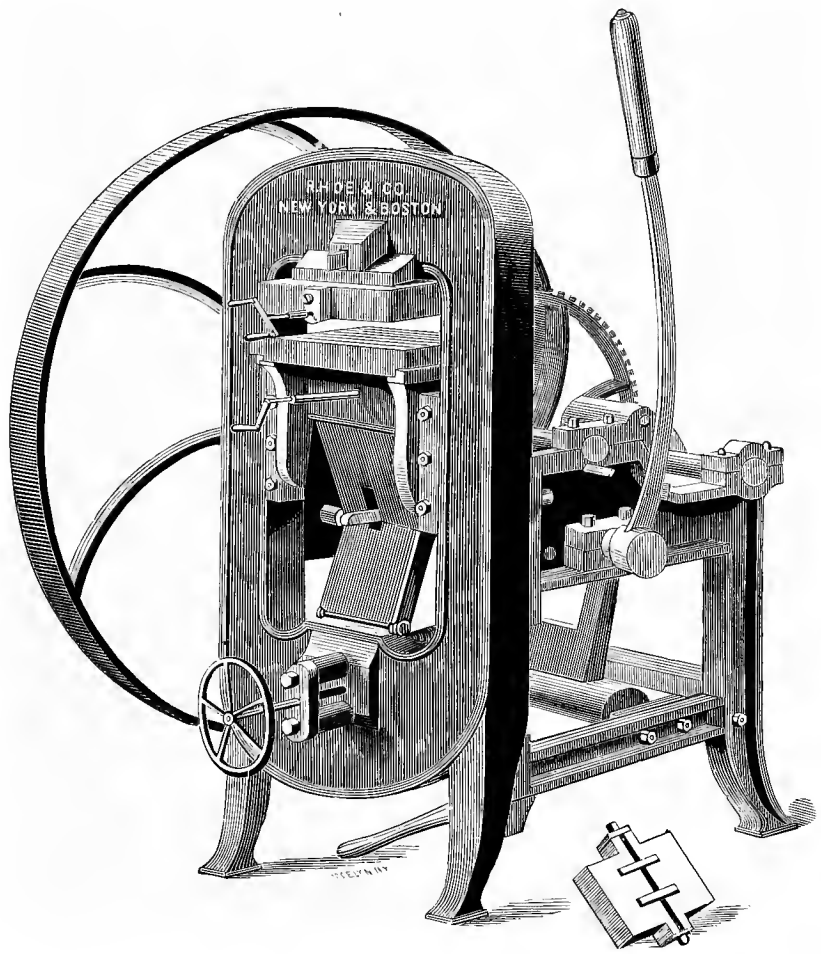


TO WORK BY STEAM POWER, PRICE $



TO WORK BY FOOT, PRICE $

THESE machines, for pamphlets and similar work, are simple and durable. The clamp which holds the needles is so made that they can be changed in position, and the number increased or diminished in a few seconds



Embossing Press.

THIS machine is massive in structure, simple and efficient in operation. The cut represents the No. 2, which may be advantageously used with the hand lever. The No. 3 is similar in form, but is double-geared, and has a fly-wheel on each end of the driving-shaft. The No. 4 is of immense power, and corresponding strength.

DIMENSIONS AND PRICES.

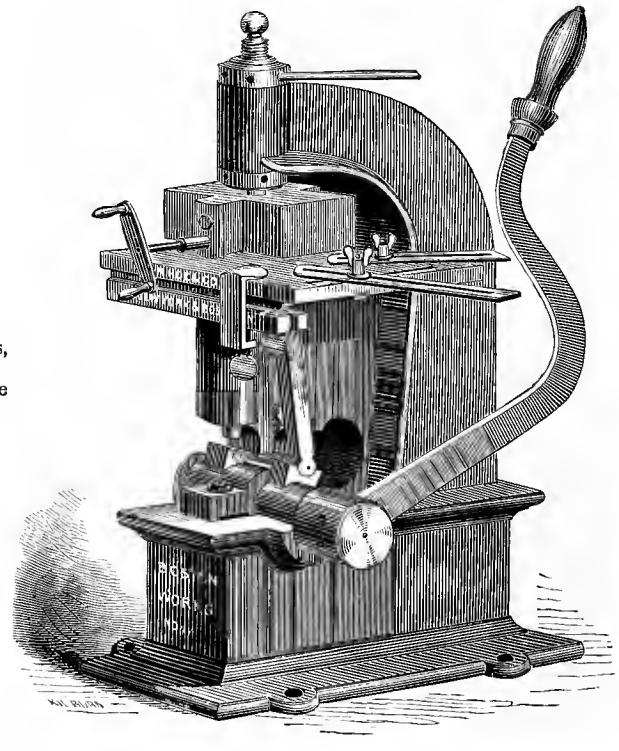
	Size of Head.	Room occupied on the floor.	Weight Boxed.	Price.
No. 1,	10 × 12 in.,	4 × 5 ft.,	2,000 lbs.,	$
No. 2,	15 × 17 "	4½ × 5½ "	3,360 "	
No. 3,	19 × 24 "	5½ × 6½ "	8,000 "	
No. 4,	24 × 30 "	6 × 7 "	11,500 "	

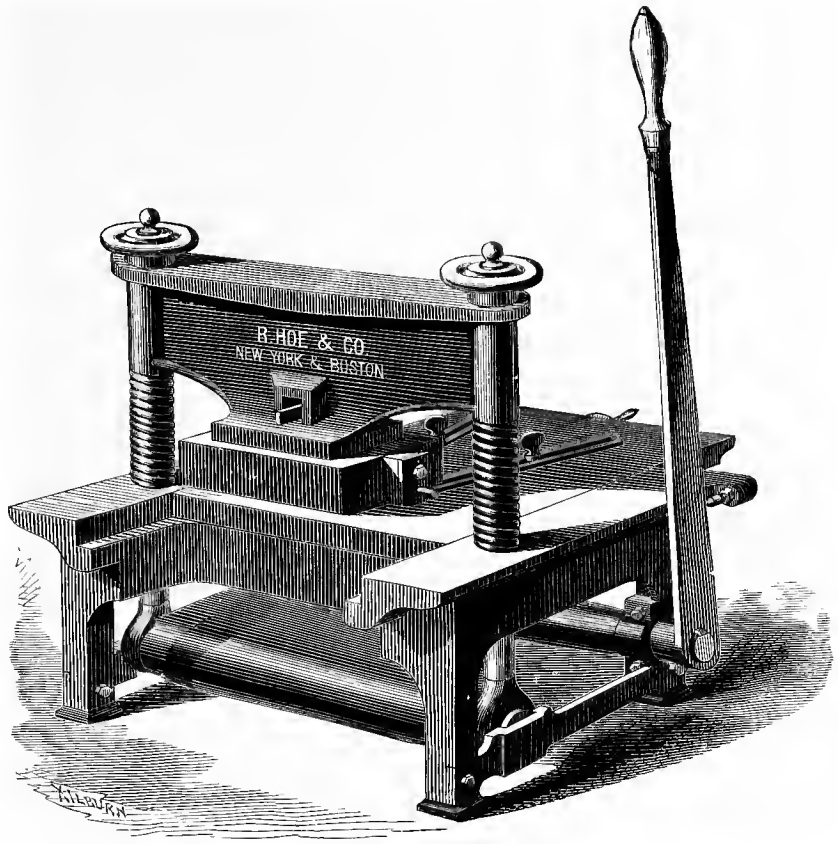
Book-Pressing or Smashing Machine.

THIS machine is on the same plan as the Embossing Press, but it has a cam of different shape, is arranged to run slower, and has a wider space between the head and bed. It is used for compressing books, and may be adjusted to all ordinary thicknesses. The prices, weight etc., are the same as those of the Embossing Press.

Half-Arch Gilding Press.

THIS is exceedingly convenient for light work, as the bed is open on three sides, and has a forward, backward, and lateral motion, while the jaws of the head may be worked from the front or from either side. Size of head, 5 × 8 inches inside.





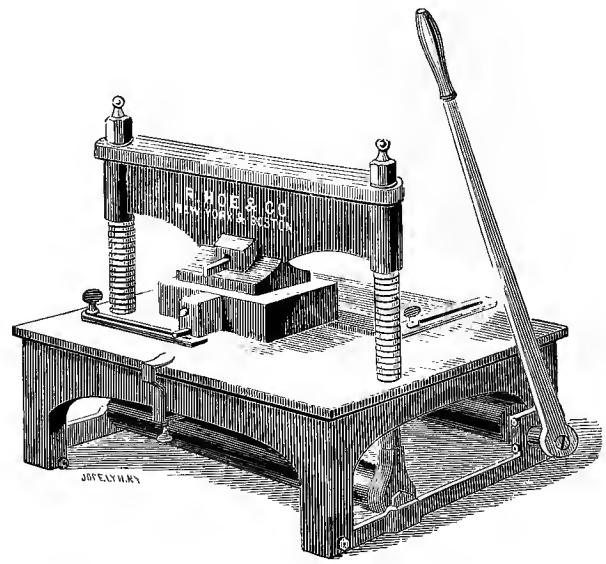
Embossing, Stamping and Gilding Press, with Solid Bed.

THIS little press, long known to the trade, is similar to the one last described, but smaller and lighter, with a solid instead of a movable bed. The head is intended to be heated by steam, but may be adapted to gas or hot irons if desired. The jaws are screwed together from the front. Adjustable side and end gauges furnished with each press. Weight, boxed, 500 lbs.

Embossing and Gilding Press, with Sliding Bed.

THIS is a powerful yet simple hand press for job work. The head, 7 × 11 inches inside, has jaws screwing together from the sides, and is intended to be heated by steam, but may be be adapted to gas or hot irons if ordered. The sliding-bed is 20 inches wide, and runs back by a screw an inch beyond the centre line of the head. Adjustable side and end gauges are furnished by which to set the work. The impression is regulated by the nuts on the top of the press.

Weight, boxed, 970 lbs.



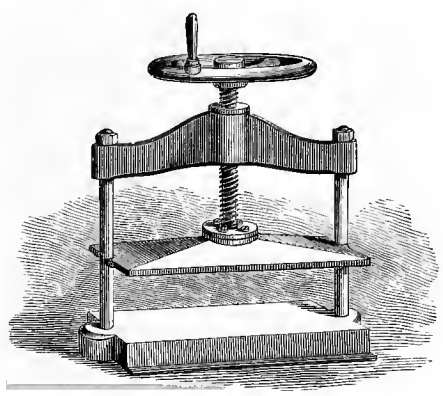


Table Standing Press.

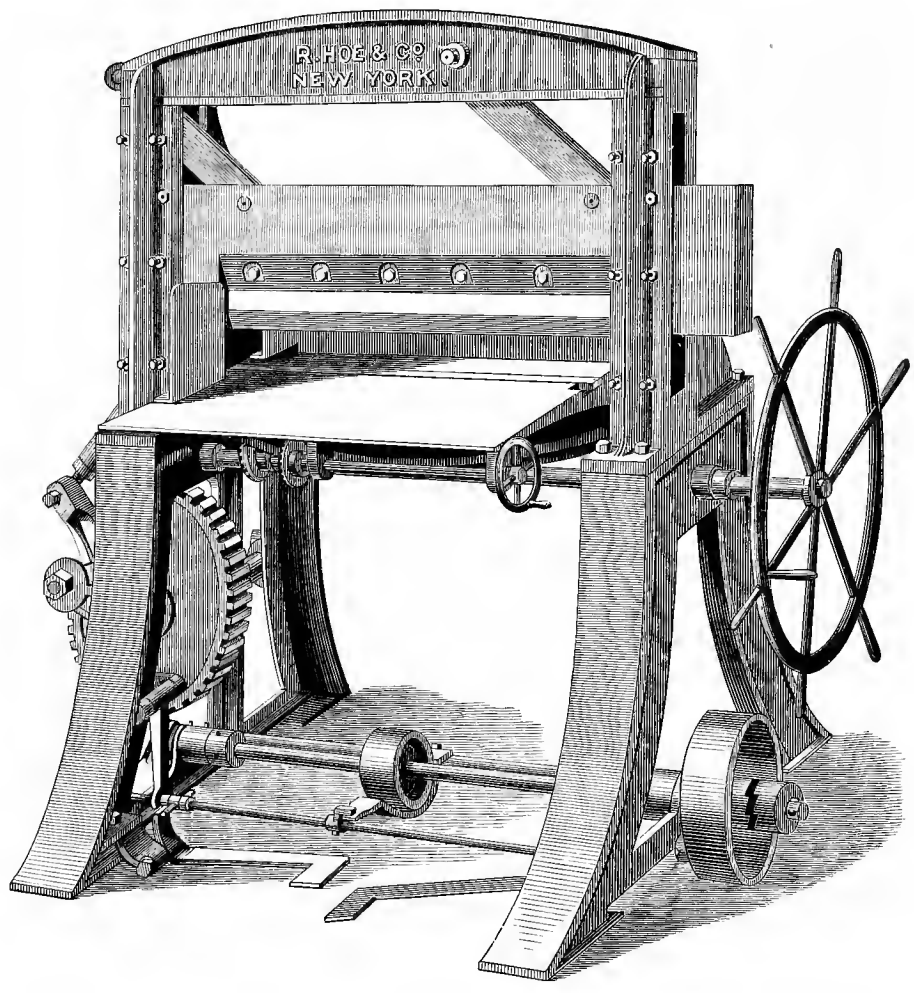
THIS little press is screwed to the table to hold work glued or pasted, until dry enough to lay aside. The platen is 7½ × 15 inches, and has nine inches of motion.

Price includes boxing and carting, or carting and putting-up in New-York.

Cigar Box Press.

THIS press is simply our SMALL EMBOSSING AND GILDING PRESS, with the proper fixtures for stamping or branding Cigar Boxes.

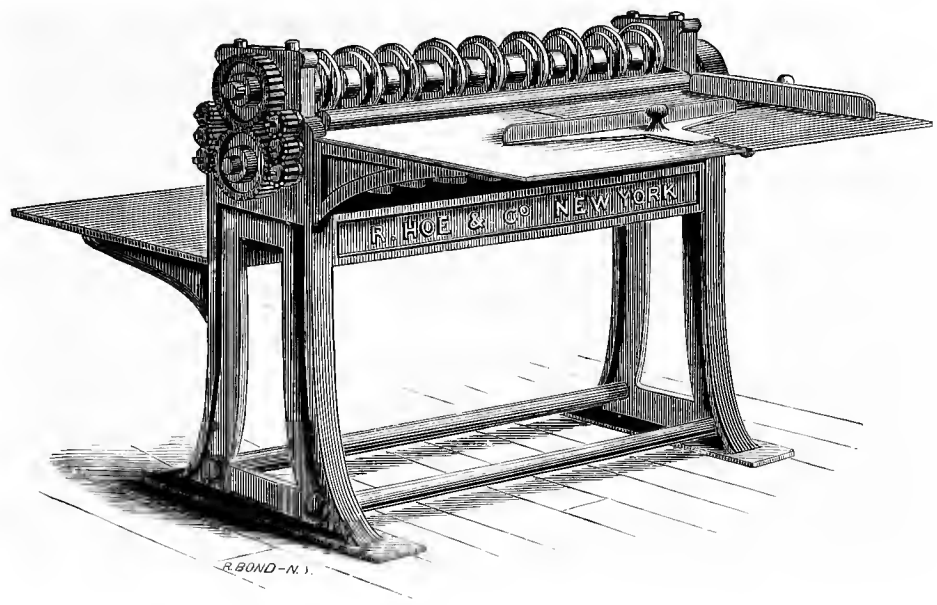
Patent Power Paper Cutting Machine.



THIS is exceedingly strong, simple, and effective, will cut the heaviest work with ease and precision. The knife is brought down obliquely to exactly the desired position by a crank motion, which returns it by a quick upward stroke and then stops. It is adjustable in height, but requires no other regulating for the various kinds of work; is quickly taken off and replaced, and will stand at any point. The paper clamp is moved by screws, operated by a hand-wheel at the side of the machine. The rear guide is moved by a screw and small hand-wheel at the side of the table in front, and a side guide ensures the cutting of the work perfectly square.

DIMENSIONS AND PRICES.

	Width of Paper Cut.	Greatest Space under Knife.	Room occupied on Floor.	Weight Boxed.	Price.
No. 1,	24 inches,	6 inches,	4 feet 0 inches × 6 feet 0 inches,	3,000 lbs.,	$
No. 2,	30 "	6 "	4 " 4 " × 6 " 6 "	3,250 "	
No. 3,	36 "	6 "	4 " 8 " × 7 " 0 "	3,500 "	
No. 4,	42 "	6 "	5 " 0 " × 7 " 6 "	4,750 "	



Circular Mill-Board Cutter.

THIS is a strong and heavy machine, for book-binders, use. The shafts and cutters are of the best cast-steel, and the table is of iron. The cutters are pressed together by adjustable springs, and have lubricating pads to prevent their chafing against each other. The work is placed against adjustable gauges on the table, and drawing rollers at each side ensure accuracy of cut A fast and loose pulley are attached so that no countershaft is required.

DIMENSIONS AND PRICES.

	Width of Board Cut.	No. of Pairs Cutters.	Price.
No. 1,	24 inches,	7	$
No. 2,	30 "	8	
No. 3,	36 "	9	
No. 4,	42 "	10	

Extra Cutters per pair, $

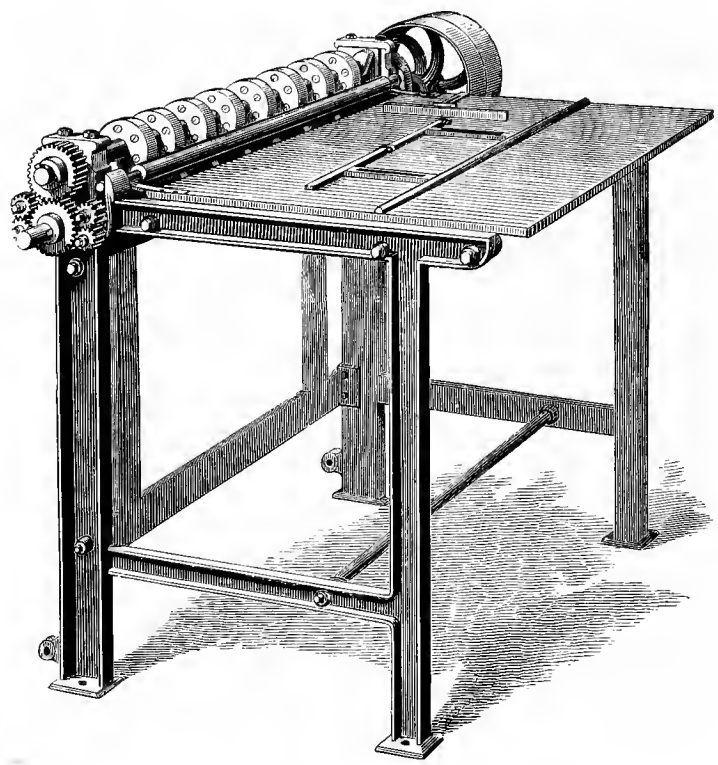
Circular Card-Board Cutter.

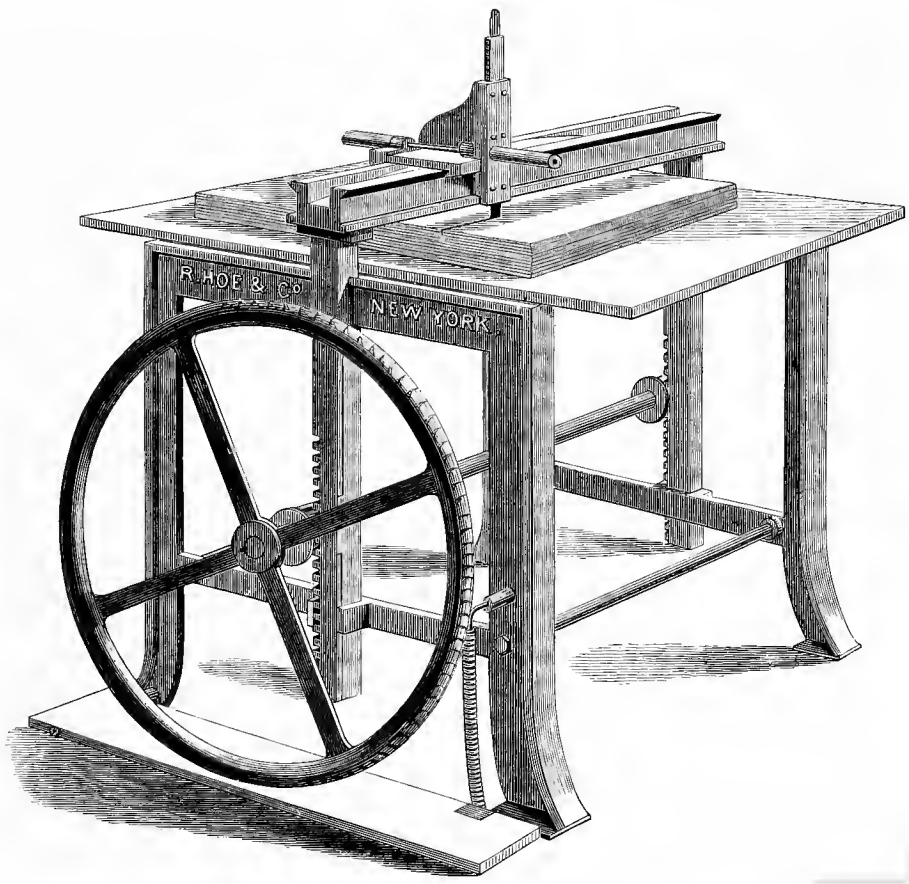
THIS machine is especially designed for cutting up card-board and similar material. The work is placed against adjustable gauges on an iron table. Drawing rollers at each side of the cutters ensure accuracy, and an arrangement of carrying bands is added, when desired, for unusually small sizes. The cutters are made of the best cast-steel and tempered. The machine is arranged to run by steam power, but can also be worked by treadle, if required. It occupies a space of from three to four feet square.

DIMENSIONS AND PRICES.

	Width of Board Cut.	No. of Pairs Cutters.	Price.
No. 1,	24 inches,	7	$
No. 2,	30 "	8	
No. 3,	36 "	9	
No. 4,	42 "	10	

Extra Cutters, per pair, from $ Carrying Bands, extra, $ Treadle, extra, $





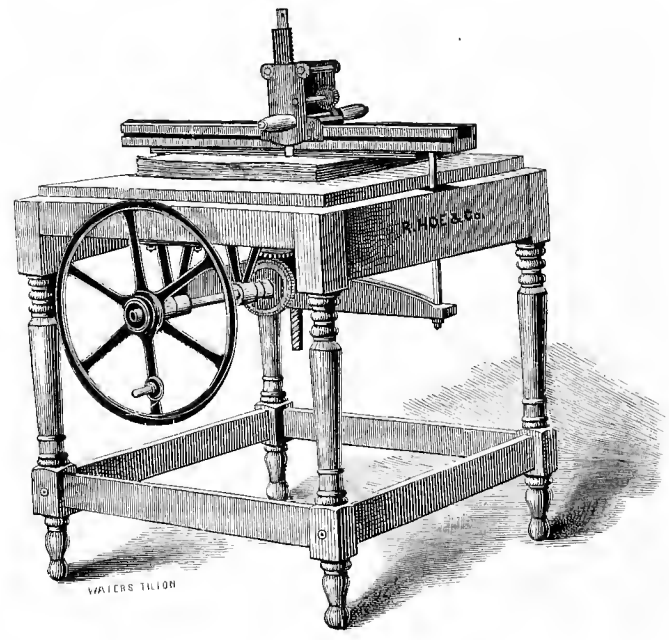
Plough-Knife Paper Cutter, with Iron Frame.

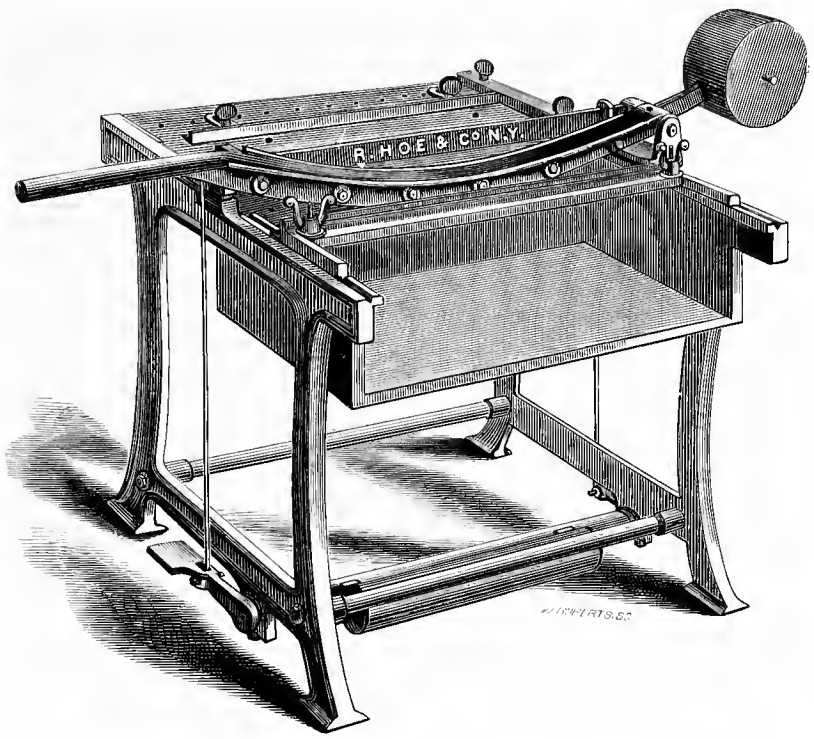
THIS is the simplest form of the Plough-Knife Machine, and is made entirely of iron, excepting the table. The plough slides on the cross-head, being worked back and forth over the paper by hand, and any wear of the parts can be taken up by adjusting screws. The knife is fed down by double gearing. A small wheel, not shown in the cut. moves the table backward and forward, while the spring-treadle locks the cross-head fast in any position. Width of paper cut, 27 inches.

Plough-Knife Paper Cutter, with Wooden Frame.

THE knife slides back and forth on the cross-head, and is moved up or down by turning the handles. The cross-head is brought down to hold the paper in place by means of the hand-wheel. The stand is of hard wood, well put together.

Width of paper cut, 27 inches.





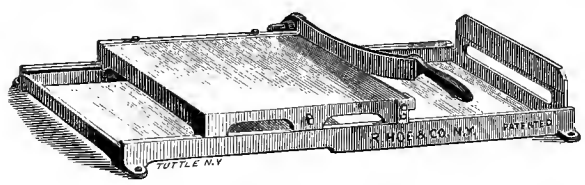
Shears and Iron Table for Mill-Board.

THE frame and table are made of cast-iron and fitted up substantially. The table and gauges are planed true. The cutters are of cast-steel, and can be adjusted by set screws, taken off to be re-ground, and, when worn out, replaced at a trifling expense. A spring lever, which is brought down by a treadle, holds the board while cutting.

DIMENSIONS AND PRICES.

No. 1, with Shear Blade	24	inches	long,			$
No. 2, " " "	30	"	"			
No. 3, " " "	36	"	"			

Patent Card Cutter.

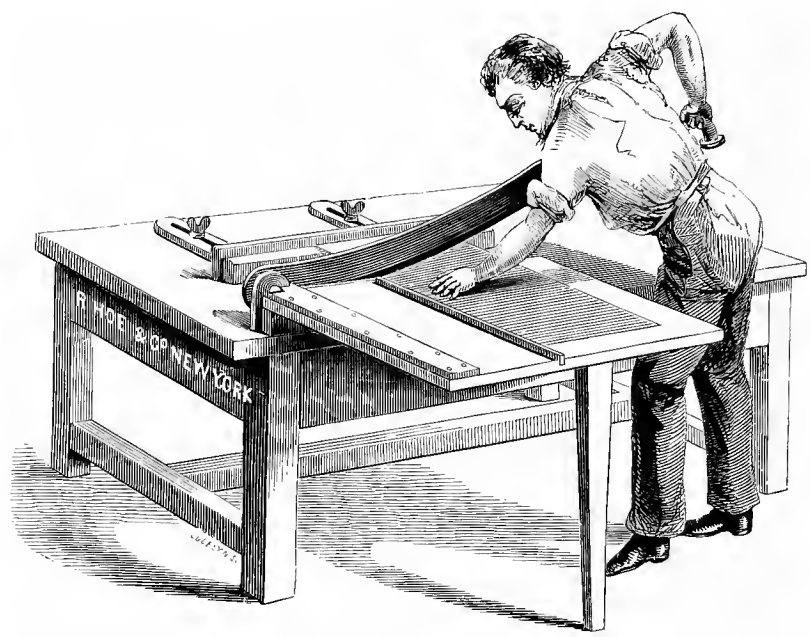


THIS Cutter is entirely of iron and steel. The bed is so made as to slide on ways, and adjusted by a rack and pinion underneath. All parts are carefully fitted, and enable the operator to work with the greatest possible accuracy.

DIMENSIONS AND PRICES.

With 6-inch Shears,		$
" 8 "	"	
" 10 "	"	
" 12 "	"	
" 15 "	"	
" 20 "	"	
" 25 "	"	

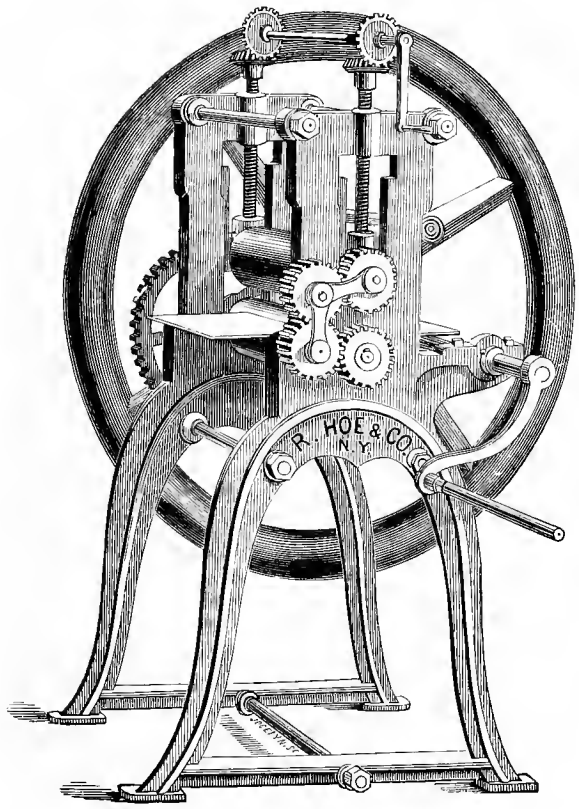
Shears and Wooden Table for Mill-Board.



THIS Table is strongly made, and is furnished with leaf and necessary gauges to insure accuracy The shears are of best cast-steel, and warranted.

DIMENSIONS AND PRICES.

No. 1, with Shear Blade	24	inches	long,			$
No. 2, " " "	30	"	"			
No. 3, " " "	36	"	"			

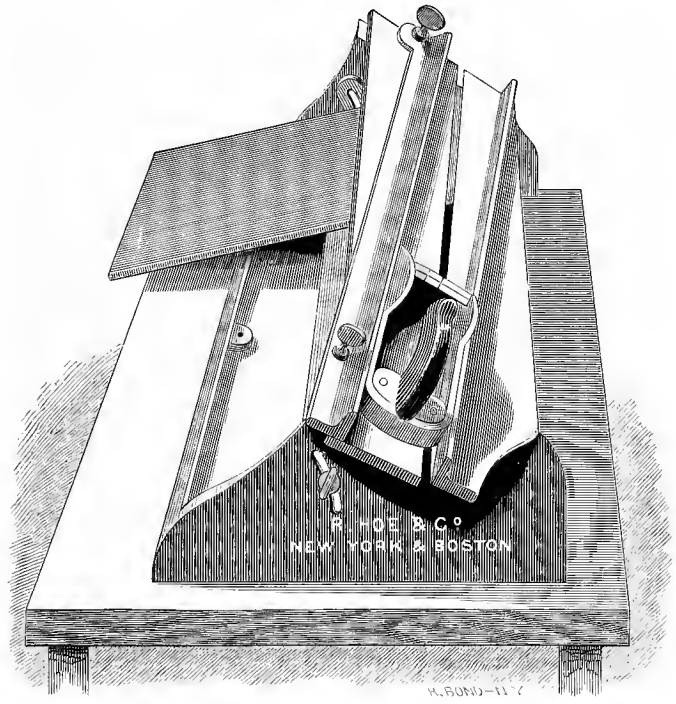


Book Rolling Machine.

THIS machine is used in place of screw and hydraulic presses, for pressing folded sheets. The work is placed on an iron table in front of the rollers, between sheets of iron, pasteboard, or leather, and passed through as often as necessary. The adjusting screws are geared together so that the rollers are always parallel to each other. The machine is strongly made, and may be run by either hand or steam power.

Width of paper rolled, 14 inches. Weight, boxed, 1500 lbs.

Other sizes made to order.

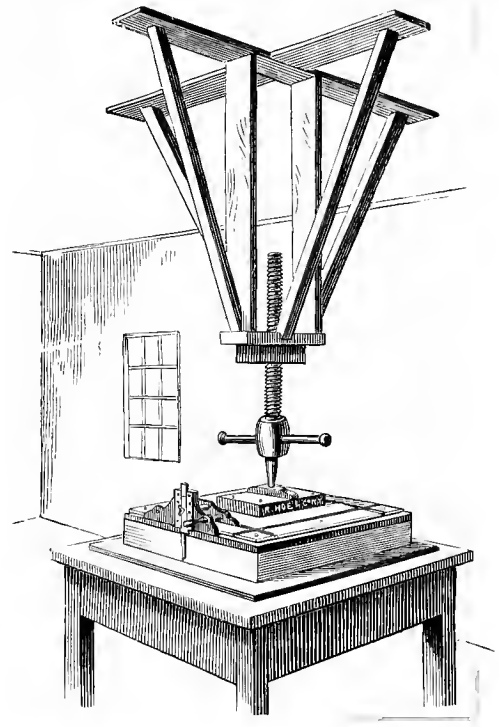


Patent Machine for Beveling Binders' Boards.

THIS machine is entirely of iron, except the knife, which is of the best double-refined steel. The plane runs in an oblique channel, so as to use the whole edge of the knife, and to give a shearing cut down the grain of the board. The groove should be set to just the thickness of the work. The table is adjustable to give any required bevel. The front gauge or stop is formed by the farther edge of the groove; the end gauge is movable on the table.

Price, boxed, with 12 knives, ... $

Boards and Plough for Squaring Paper.



THE boards usually furnished are respectively 13 × 16 inches, 15½ × 19½ inches, 17 × 21½ inches, and 19 × 27 inches, but the sizes can of course be varied as desired.

Price of plough, with knife and four boards, $

Wood screw for plough, with nut and iron point,

Table of hard wood, ...

Steel Lines for Bookbinders.

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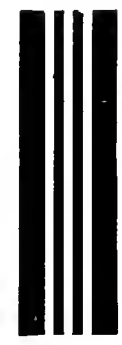
10. 

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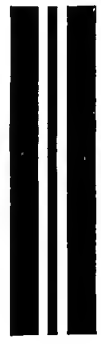
18.

19.

20. 

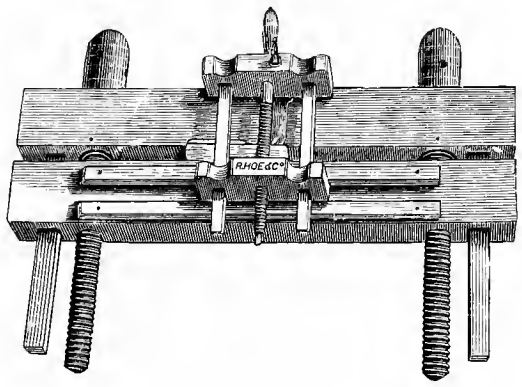
21.

22.

23.

24.

Binders' Press and Plough.

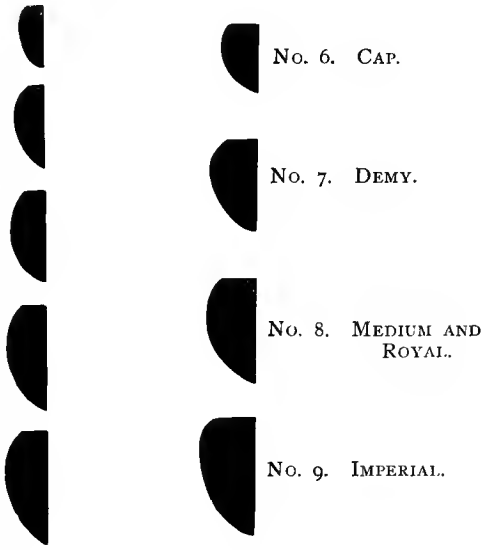


Price, $

Plough-Knife.

Price, cents.

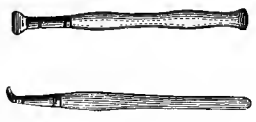
Joint Rods for Blank Books.



No. 1. QUARTO.
No. 2. CAP
No. 3. DEMY.
No. 4. MEDIUM.
No. 5. SUPER-ROYAL.
No. 6. CAP.
No. 7. DEMY.
No. 8. MEDIUM AND ROYAL.
No. 9. IMPERIAL.

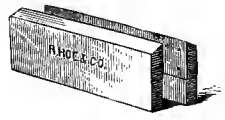
Price cents per dozen.

Agate Burnishers.



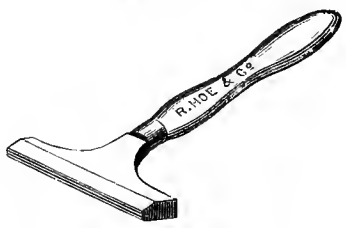
Price, each, $

Backing Boards.



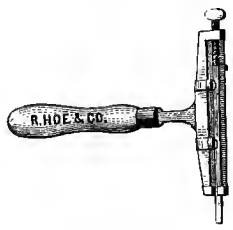
Price, per inch, cents.

Burnisher.



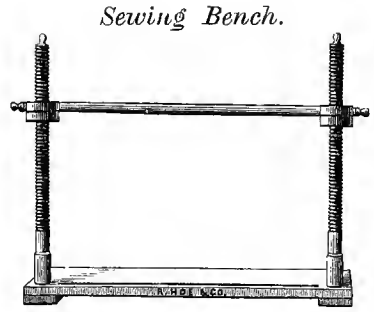
Price, $

Pallet.



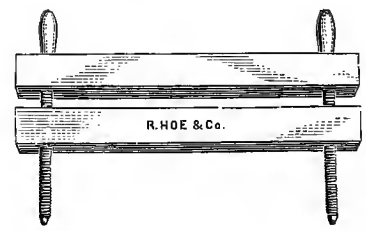
Price, $

Sewing Bench.



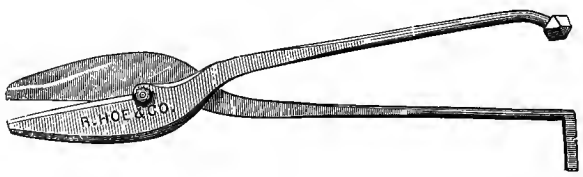
Price, $

Finishing Press.



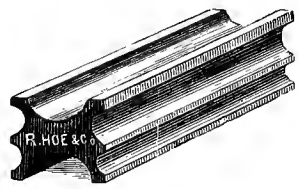
Price, $

Squaring Shears.



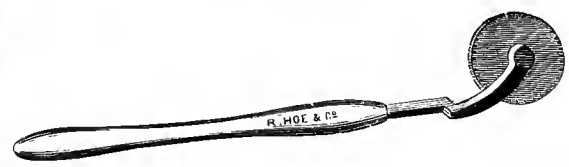
Price, per inch of cutting edge, $

Backing Iron.



Price, $

Gilding Roll.



Price, $

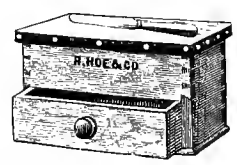
Steel Polisher.

Price, $

Beating Hammer.

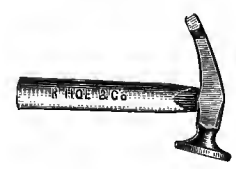
Price, $

Gold Cushion, with Drawer.



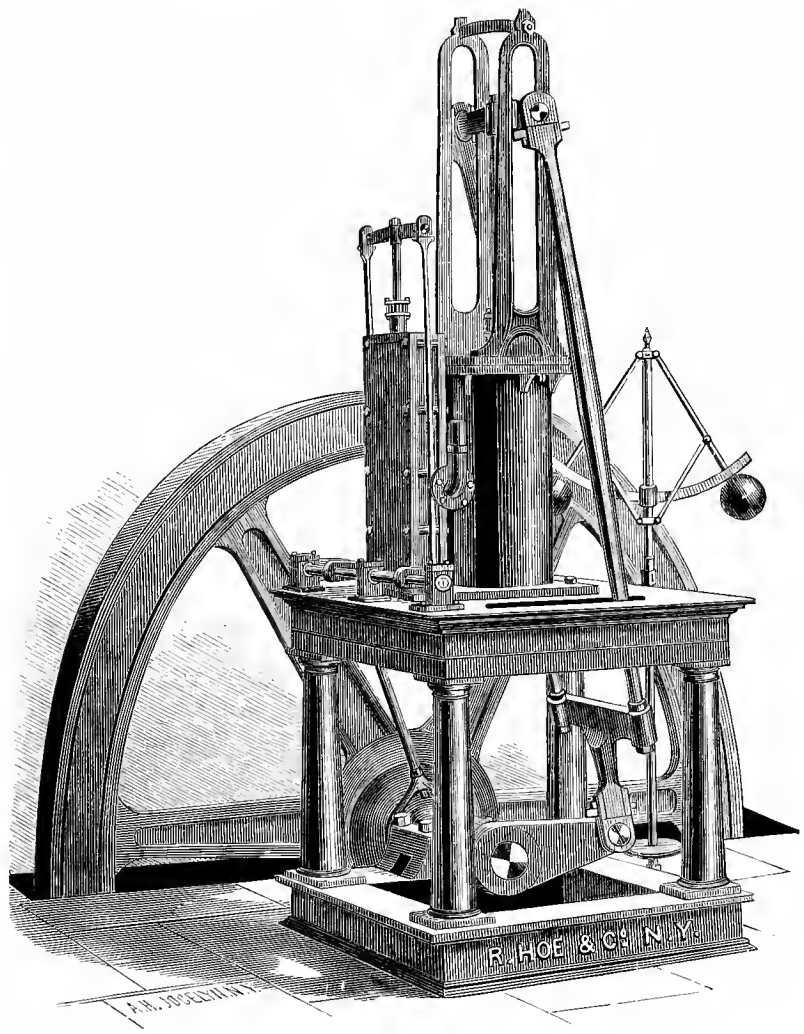
Price, from $ to $

Backing Hammer.



Price, $

Vertical Steam-Engine.



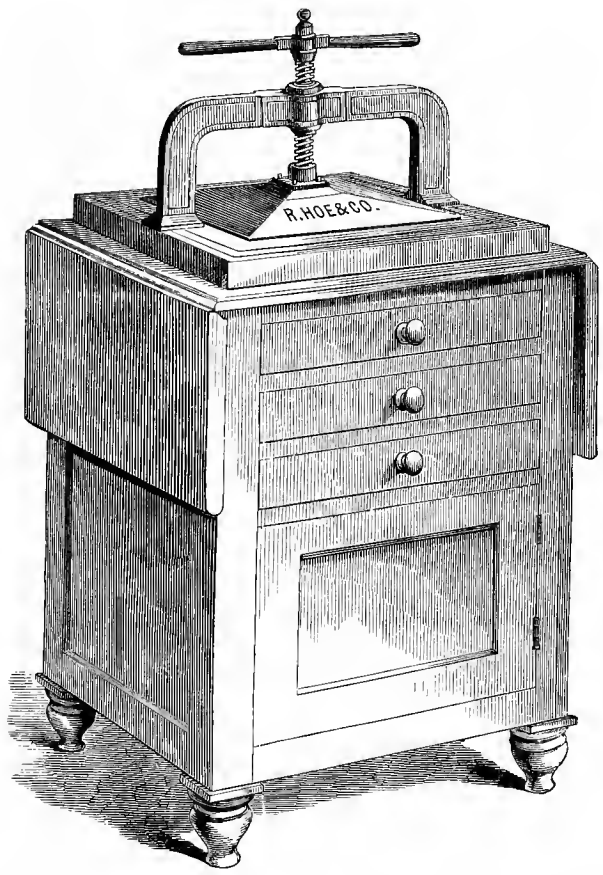
THIS engraving represents a high pressure steam-engine, which, as it occupies but little space, is admirably adapted to the impelling of machinery for printing and other manufacturing purposes where room is valuable. It is remarkable for symmetrical proportions, compactness, and great strength.

DIMENSIONS AND PRICES.

Horse Power.	Diameter of Cylinder.	Length of Stroke.	Size of Pedestal.	Diameter of Fly-Wheel.	Price.
5	6½ inches,	16 inches,	3 feet 2 inches × 2 feet 10 inches,	5 feet 9 inches,	$
10	9 "	22 "	4 " 0 " × 3 " 5 "	7 " 3 "	
15	11 "	22 "	4 " 0 " × 3 " 5 "	7 " 3 "	
20	13 "	24 "	4 " 4 " × 3 " 6 "	10 " 0 "	

Letter Copying Presses.

FRENCH PATTERN.

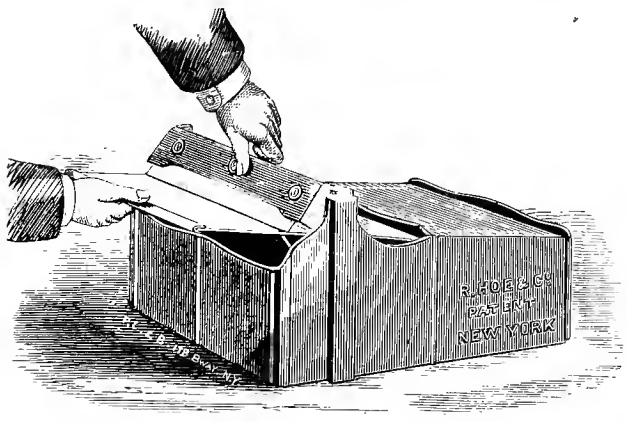


THIS Press has a wrought iron arch or yoke and handle. The boxes and steps are of brass, and all finished with great care. The iron work is elegantly japanned. It is a beautiful and useful ornament for the office or counting-room.

DIMENSIONS AND PRICES.

Press with platen or follower, 20 × 24 inches, ... $
Table for do.. . . . . .
Press with platen or follower, 15½ × 20 inches, .
Table for do., ...
Press with platen or follower, 10¼ × 15½ inches,. . .
Table for do., ...

PATENT HORIZONTAL CASE WITH WOODEN COPYING TABLETS.

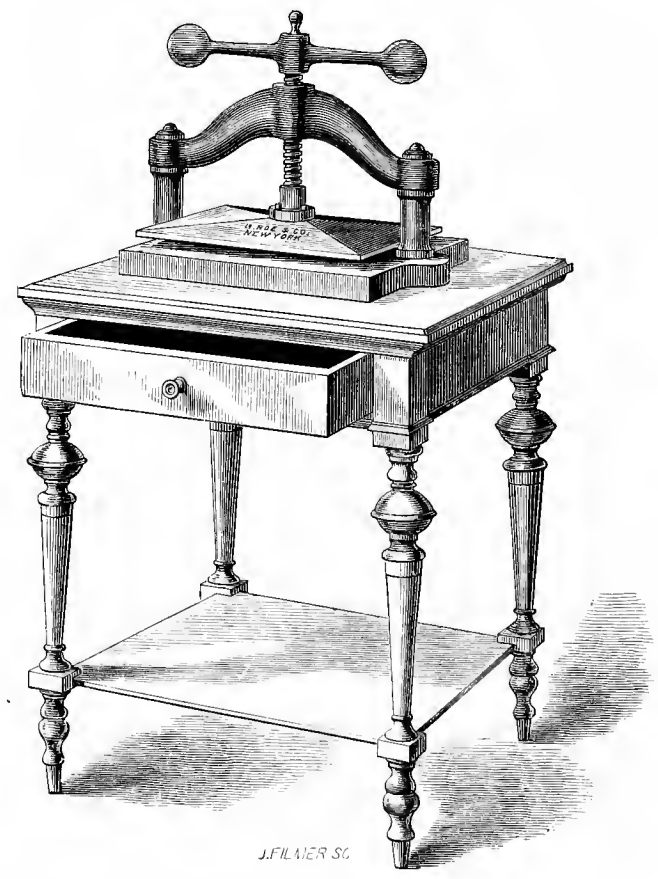


THIS valuable addition to the Copying-Press consists of an iron case or water-box, with a pair of rubber wipers, so arranged as to remove the surplus water from both sides, and prepare the tablet for use. A large number of manuscripts may be copied at once, including many duplicates of each page when desired—an invaluable aid where many letters or documents are to be copied in duplicate, with dispatch.

NEW WROUGHT-IRON PRESS.

THIS Press has wrought-iron yoke, handle, and columns.
Size of follower of Press, 10½ × 13 inches, . . . $
Price of Table, ...

SCREW AND BALL PATTERN.



Size of follower, 10 × 13 inches, ... $
Price of Table, in Black-Walnut, ...
This Table is adapted to any of our Presses.